ISSUED EVERY WEDNESDAY

DRUG&CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XI,

NEW YORK, AUGUST 16, 1922

No. 7





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ISSUED EVERY WEDNESDAY

DRUG & CHEMICAL MARKETS

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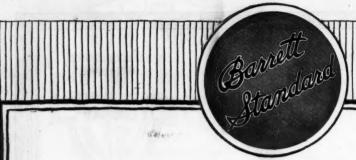
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DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XI, NUMBER 7

[AUGUST 16, 1922

ON THE ROAD TO PROSPERITY

Chemical manufacturers report a renewal of confidence on the part of consumers and increased activity in the trade generally. The industry has undoubtedly turned the corner into the right road to Prosperity. All signs point that way, but unfortunately an obstruction to rapid progress has been placed in the way by the coal miners and railway men on strike. Tariff uncertainty has caused some hesitation about "stepping on the gas" until the road is clear and protection assured, but the immediate danger is in a reaction owing to lack of coal and ample facilities for transportation

of both coal and freight.

Delivery of raw materials is impeded by priority orders just at the time when consumers are increasing their specifications for deliveries under contract commitments. Inquiries for spot material are larger, too, but it will be necessary to curb production soon if manufacturers cannot get the raw products needed to meet the growing demand. Some producers who felt the recent increased activity were inclined to think that it was caused by the anxiety of buyers to anticipate the threatened strike of railroad men, but leading interests in the chemical trade are almost unanimous in saying, in reply to inquiries sent out by DRUG & CHEMICAL MARKETS. that the favorable conditions long looked for in the industry are now here. As soon as buyers realize that prices are at rock bottom business will come like a tidal wave. As one of the correspondents of DRUG & CHEMICAL MARKETS Says, chemical industry is usually the last to feel a depression and not among the first to recover." The depression of the last eighteen months has certainly proved the financial stability of chemical manufacturers, and tested their patience and courage. With an adequate tariff and settled economic conditions they will soon find unmistakable signs that the "corner" has been turned.

GERMANY'S FINANCIAL BLUNDER

Germany is enjoying the exhilarating sensation that comes with currency inflation. Everybody is getting higher wages, business is booming, the exchange rate with other countries makes it possible to sell at high prices and the export trade is extremely profitable. Manufacturers feel so well satisfied with the trade abroad that they even insert a clause in export contracts that the customer may cancel the agreement whenever German prices rise above the world's level.

The optimists see no danger ahead. They believe that the home market will absorb the production for some time, even should the foreign demand fall off and they point to Russia as a market in the near future which will take everything Germany has to offer. Already syndicates are being formed in Upper Silesia and the Rhenish districts for trading with the Russians. The recent treaty between the German and Soviet Governments has stimulated purchases by both countries, and the future seems rosy, with the sun of prosperity rising

again.

In the world's leading financial centers, the feeling is exactly the reverse. The favorable conditions are recognized as helpful in stemming the tide which it is believed is carrying the Government with irresistible force toward ultimate bankruptcy unless the currency inflation policy is changed. During the week ending Ang. 7 nine billion brand new paper marks were put in circulation, bringing Germany's paper circulation to about two hundred and eleven billion marks. Will the Government be able to redeem this enormous issue? When will the printing presses cease turning out more millions and billions of paper money? The American dollar is now worth 900 marks, when normally it was worth four marks. Bread has increased 50 per cent in price during the week. Living prices are advancing more rapidly than wages, and when prices of foodstuff become prohibitive, panics will follow. Then bankruptcy.

CHEMICAL EXPOSITION NUMBERS

Features of practical value in the trade and useful for future reference will be found in the Chemical Exposition numbers of Drug & Chemical Markets. The contributors to a "Symposium of Business Chemistry," which will be the leading feature, are traffic managers of well-known chemical companies, heads of foreign departments, shipping agents familiar with export and import regulations, advertising experts, and authorities on financial conditions in the chemical, dye and drug manufacturing industries.

The legal complications arising from mistakes and misunderstandings in the trade will be discussed by the secretary of the Arbitration Society who will offer suggestions for settling disputes without appeal to the courts with the consequent expense and delay. How to handle advertising copy, the value of trade-marks, and samples of effective layouts for small and large advertisements will receive the attention of a successful advertising agent whose advice will be valuable to non-advertisers as well as to the manufacturer, and dealer who is represented in Drug & Chemical Markets.

Efficient and prompt delivery is essential to every industry and the regulations in chemical shipments are so diversified and strict that shippers must be well posted to meet conditions and avoid unnecessary delays caused by failure to learn the rules of railroads, steamship lines, and express companies. Office management is another complex subject, handling orders, keeping track of quotations and classifying firms according to products in which they deal. Get a working system fitted to your particular needs by reading the article on "Handling Inquiries and Quotations" which will form a part of the Symposium on Business Chemistry. The financial aspects of the chemical and dye trade should interest dealers as well as manufacturers; the containers in which products are shipped and their capacity should be familiar to buyers; and all these features will be worth filing among the ready reference records in your office for constant use.

CURTAILING NARCOTIC SUPPLIES

Recent cablegrams from Germany tell of the efforts of the Government to prevent the exportation of illicit consignments of cocaine and other narcotics purchased there by foreign agents who smuggle the goods out of the country, usually to Holland but often to Sweden and to England. The German manufacturers are co-operating with the authorities in a whole-hearted, earnest endeavor to suppress the traffic. The Berlin police have closed the "speakeasies" and put a check upon the trade in that city, but the leaders of the smugglers who send agents through the manufacturing districts to make purchases have now made their headquarters in Hamburg for convenience in making shipments by bribing members of steamship crews.

The American Consul General and the Consul in Hamburg have succeeded in having nearly a hundred smugglers prosecuted. Legitimate manufacturers place a number on each tube containing narcotic. These numbers are reported to the authorities and this co-operation has made it possible to run down the illicit firms manufacturing goods for the smugglers. Several factories have been closed. Information obtained in the investigations in Germany is sent to the United States, and American officials search ships at New York and other ports, when evidence of illegal shipments is received. By international help of this kind, especially on the part of German manufacturers and the German authorities, it is hoped to greatly curtail the supplies sent to America for illegitimate nse.

Acting on the advice of counsel we have taken out burglary insurance on our editor's fountain pen.

During the last two years the American newspaper publishers tried unsuccessfully to use foreign news print on their presses. After experimenting, the Metropolitan newspaper publishers, who consume the greatest volume of paper, stopped using foreign paper and bought American made paper once more. The reason is obvious—they preferred American paper. But how long will the presses of American newspapers be able to run on American paper unless the American paper industry is sufficiently protected from ruinous foreign competition so as to obtain a "just and reasonable profit" on the paper manufactured?—The Paper Mill.

Many Men: Many Minds

Congratulations on the splendid start you are making in getting real market news.—George Smart, editor, "Iron Age."

Live unto the dignity of thy nature, and leave it not disputable at last, whether thou hast been a man.—Sir Thomas Browne,

Habit-forming narcotics make up merely one type of drugs, a type that might fairly accurately be called by the shorter name of "dope."—N. Y. Sun.

It is clear from returns just issued by the United States Tariff Commission that the American dye industry is by no means as flourishing as the earlier reports of its progress would lead one to suspect. As against this, "conspicuous progress" is reported in the development of synthetic medicinal chemicals of coal-tar origin and in the production of perfumes and flavours. The causes of the present position are largely the same as those which have operated in this country—namely, the diminution of the export trade in dyes, the large stocks carried over from the previous year, and the general business depression.—Chemical Age (London).

Since April 1, when the strike began, industry has been eating into its reserve of fuel, so that now the supply is so low that the Government is rationing out the new production of the mines. The prospect of a coal shortage in the fall and winter has become serious; and how can prosperity return if the factories cannot get enough fuel to keep a full head of steam in the boilers? Every day that the strike continues the danger to the industrial revival grows greater. Even if the bituminous coal mines were reopened at full swing today the situation would be bad. It would be difficult, and perhaps impossible, to supply enough coal to take care of active industry.—Industrial Digest.



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Has the Business Corner Been Turned?

In the Chemical Industry Manufacturers Report Business on the Upward Swing and Only Temporarily Checked by the Rail and Coal Strikes

BABSON'S report, last week, said the corner in business had been turned. Drug & Chemical Markets has asked leading men in the chemical industry if the statement is true of their business. The chemical trade is slow to feel a change in conditions which usually follows more liberal buying by the general public, the release of funds for building purposes, increased orders for steel and lumber, a revival in manufacturing lines, and finally reaches the chemical producers whose products are classed among the raw material for nearly all industries. The answers to the question "Do conditions, as you find them, justify this forecast, and why?" came promptly and are almost unanimous in endorsing the Babson report as true of chemicals. A marked increase in sales has been noted, business is declared to be on the upward swing, and with the passage of the tariff bill and settlement of the rail and coal strikes, a boom is expected in the Fall. Evidently it has already set in, according to the statement of Dr. Milton C. Whittaker, of the U. S. Industrial Alcohol Co., who writes: "Too busy to answer," and initials it "M. C. W."

John A. Kienle, Mathieson Alkali Works—Even before the issuance of the report referred to, we found that business with us was "turning the corner". This condition was evidenced mainly by increasing specifications against contract commitments on the part of our customers combined with increasing inquiries for spot purchases. The change was noticeable several months ago, prior to which time many of the people with whom we had contracts had not specified for any deliveries whatsoever, and others had specified only lightly. We consider it extremely unfortunate that the railroad and coal situation should have reached the stage it has just at the time business is recovering from the serious depression of the last eighteen months.

Church and Dwight Co.—Business conditions seem to be improving and we look for excellent business this Fall.

John A. Chew, Warner Chemical Co.—There has certainly been a marked increase in sales in the last few weeks. Whether this is due to the threatened freight tie-up, or to a real revival of business, I am not in a position to say. I am more inclined to think that the latter has something to do with it, but I am afraid to predict.

Ray P. Dunning, The Barrett Co.—Though business is not what one might call back to normal, it is felt that it has turned for the better and is on the way toward improvement.

Truman Smith, Contact Process Co., Buffalo—In some directions business conditions have improved materially in the past few weeks and in other lines there has been little if any change. In our line the cost of raw material, especially coal, freight rates and labor, has not been reduced sufficient to justify the very low prices prevailing for our products and the demand for them will have to increase considerably before we can begin to feel optimistic.

G. Lee Camp, Dow Chemical Co., Midland, Mich.— The chemical business has not "turned the corner" and will not do so until the Fordney Tariff becomes operative.

Philip S. Tilden, E. I. du Pont de Nemours & Co.— My opinion is that the corner of business conditions has turned. Conditions justify this because business is on the upward swing. Rolland H. French, Miner-Edgar Co.—We believe that had not the strike situation come along Mr. Babson's forecast would have turned out to be correct. However, at present it looks as though a bad reaction is facing us. The strikes have already lasted long enough so that we cannot avoid this reaction for at least a temporary period.

Edward E. Arnold, Providence, R. I.—Business seems only awaiting settlement of the coal and railroad labor troubles.

C. C. Baird, Baird and McGuire, Holbrook, Mass.— It is quite possible that the corner of business conditions has been turned, but our experience is that buyers have not yet been convinced that prices are now at rock-bottom, and until this happens we expect to see business come in waves.

A. H. Pierce, Grasselli Chemical Co.—Business is apparently substantially better, as more healthy conditions exist. Business unquestionably will continue to improve as soon as such uncertainties as strikes and legislation are finally satisfactorily disposed of.

J. Wrench, Industrial Chemical Co.—The writer's opinion is coincident with the reports mentroned. It is true, as yet there has been no marked rise in the grade leading to prosperous business conditions but we believe there prevails a much stronger feeling of confidence in the future that will be felt soon. Just as soon as the large National labor bodies come to realize the desirability and advisability of co-operating in the general adjustment from war-time prodigally, business will improve.

C. H. Richardson, Hord Color Products Co., Sandusky, O.—Beginning in May we found a substantial increase in business for that month and also for the month of June.

John W. Kellermann, Isaac Winkler & Bro. Co., Cincinnati, O.—We are pleased to report that our business during July was very good. While the railroad and coal situation has no doubt had some influence on it, we believe the general trend is better. Costs are increasing and prices will no doubt advance and business always seems to be better on an advancing market.

Howard B. Bishop, John C. Wiarda & Co.—Babson may be right, taking all lines of business into consideration. Chemical manufacturers should remember from past experience that their industry is usually among

the last to feel a depression and not among the first to recover. A new tariff may make a difference.

E. J. Pranke, American Cyanamid Co.—Our business is very good—fully normal. We are looking for a normal volume of business next year.

Ralph E. Dorland, Dow Chemical Co.—It is my personal opinion that general business conditions are gradually improving, increasing activity being apparent on the part of manufacturers and a more settled attitude being evidenced on the part of the purchaser. This apparent renewal of confidence, in spite of the tariff uncertainty and the present very distressing economic conditions existent in this country, surely indicates that business in general should continue to improve

F. M. Fargo, Calco Chemical Co .- Our opinion is Of that the corner was turned a long while ago. course, a great deal depends upon just what is considered to be the corner. We have figured right along that when all of the surplus stocks of various commodities had been liquidated and when the various manufacturers and jobbers had had a brief time in which to recover from the shock and loss of this liquidation the corner would be turned. We feel that this occurred some months ago. Since that time our experience has been that there has been a steady improvement in the general volume of business accomplished, and in the underlying conditions affecting it. We think that this is still going on and will go on for some time to come. The struggle to increase volume so as to take care of the unusual production capacity created during the war will unquestionably keep prices too low to permit of good profits for some time yet, but we feel quite confident of steadily improving volume and of eventually obtaining more satisfactory prices.

TO PROTECT AMERICAN TRADE-MARK (Special to Drug & Chemical Markets)

Washington, D. C., Aug. 16.—Senator Sutherland of West Virginia, introduced a trade-mark amendment to the tariff bill on Monday which was agreed to by the Finance Committee. The amendment is as follows:

"Sec. 526 (a) That it shall be unlawful to import into the United States any merchandise if such mernhandise, or the label, sign, print, package, wrapper, or receptacle, bears a trade-mark registered in the Patent Office, by a person domiciled in the United States, under the provisions of the Act entitled "An Act to authorize the registration of trade-marks used in commerce with foreign nations or among the several States or with Indian tribes, and to protect the same," approved Feb. 20, 1905, as amended, if a copy of the certificate of registration of such trade-mark is filed with the Secretary of the Treasury, in the manner provided by section 27 of such Act, and unless written consent of the owner of such trade-mark is produced at the time of making entry.

"(b) Any such merchandise imported into the United States in violation of the provisions of this section shall be subject to seizure and forfeiture for violation of the

customs laws.

"(c) Any person dealing in any such merchandise may be enjoined from dealing therein within the United States or may be required to export or destroy such merchandise or to remove or obliterate such trade-mark and shall be liable for the same damages and profits provided for wrongful use of a trade-mark, under the provisions of such Act of Feb. 20, 1905, as amended."

Bradstreet's reports 368 failures for the week in the United States as compared with 352 for the previous week, and 329, 147, 115 and 161 for the corresponding weeks 1921 to 1918.

Trade Notes and Personals

F. J. Mingst, of the Philadelphia office of the Roessler and Hasslacher Chemical Co., has severed his connection with the company.

The property, plant and equipment of the Colgate Food Products Corp., Colgate, Sutton Station, Baltimore, Md., will be offered at public sale on Aug. 23, by Samuel Frensdorf, Trustee.

Col. Herman A. Metz will be nominated for Congress in the Seventeenth District, by Tammany, to oppose Representative Ogden L. Mills. The district takes in middle Manhattan from 14th street to 99th street.

The Virginia-Carolina Chemical Co. will not call its fifteen-year 5 per cent bonds before maturity, but holders can receive payment at par and accrued interest to the date of presentation by presenting the bonds with all unmatured coupons to the Central Union Trust Co.

The plant of the Tanners' Hide and Tallow Co., on the Baltimore and Ohio railroad, near Hagerstown, Md., was destroyed by fire, Aug. 5, with loss of \$20,000. About 40 tons of fertilizer, a quantity of tankage and tallow and all the equipment were destroyed.

Frank G. Hall, president of Stein, Hall & Co., Inc., sailed for Europe on Saturday, Aug. 12, on the steamer Niew Amsterdam. With him are his wife and three daughters. Mr. Hall plans to spend two or three months motoring on the Continent and through England.

The board of directors, Loyola College, 700 North Calvert street, Baltimore, Md., has awarded a contract to Henry Smith & Sons, 7 East Redwood street, for the construction of a new two-story chemistry building to cost about \$200,000. Otto G. Simonson, Casualty Building, is architect.

The annual report of the Roxbury Chemical Works, Inc., for the year ended May 31, 1922, is as follows: Assets—Autos, trucks and teams, \$6,368; merchandise, \$21,-294; accounts receivable, \$19,252; cash, \$54,223; total, \$101,137. Liabilities—Capital stock, \$15,000; accounts payable, \$5,416; surplus \$80,721; total \$101,137.

For the year ended June 30, the Procter & Gamble Co. reports total sales of \$105,655,386 against \$120,-019,727 in the previous year. Operating profits totaled \$7,340,327 against \$3,729,559. Total surplus on June 30, amounted to \$21,645,485 against \$20,125,850 at the close of the previous fiscal year.

Burroughs, Wellcome & Co., manufacturers of pharmaceutical products, with offices in London, England, and New York office at 18-20 East 41st street, have leased the premises 9-11 East 41st street. Plans have been prepared by Townsend, Steinle & Haskell, architects, for a twelve-story office building which the tenant will erect on the site.

In a decision overruling a protest of D. C. Andrews & Co., of Philadelphia, against the collector's assessment of duty on certain imported chemical compounds, described as "Ordoval G." Judge Brown, of the customs board writes: "In this case the original judgment is corrected on rehearing and the merchandise held to be properly classified at 15 per cent ad valorem and 2½c per pound under group 2, section 500 and section 501, title V, act of 1916, and the protest is accordingly overruled.

Potash mines in Hanover and Oldenburg, Germany, expect to resume operations soon. Interior sales are on the increase and eports show signs of increasing, according to an official report.

America's Place in Synthetic Medicinals

Difficulties Faced by the American Chemical Industry in Developing New Synthetics Since 1914

By ALFRED S. BURDICK, President of the Abbott Laboratories

EW realize the difficulties involved in putting out a new or even an old synthetic chemical. When the work in the chemist's laboratory is finished, or seems to be finished, the trouble has only begun, because the production of chemicals on an industrial scale involves the handling of larger quantities, under varying conditions as regards temperature, pressure, etc., and the question of yield immediately becomes vital; for if a sufficient yield is not produced not only from the final step, but at every step in the course of production of one of these chemicals, its manufacture in a commercial way becomes impossible.

In elaborating a new product, the work of the chemist has to be done over and over again. You all remember the classic experience of Ehrlich, who was only able to produce salvarsan after 695 ineffectual attempts. I have referred to butyn, the new local anesthetic which the Abbott Laboratories is just now placing on the market. Before we were able to produce this substance

VO.

we made about forty new chemical bodies. Most of these were carefully tested upon animals. A number of them had merit as local anesthetics, but until butyn was reached none was found which presented decided advantages over anesthetics really available.

I may say in passing that before the war butyn would have been impossible of manufacture, because butyl alcohol, one of the most important intermediates in its production, was practically unknown and procurable only at a prohibitive price. It was a curiosity. Its commercial manufacture grew out of the synthetic production of acetone, which was required as a solvent for the making of explosives.

In this connection I wish to refer briefly to a new product which stands in the same relation to butyn as anesthesin does to procaine. I mean butyl p-amino benzoate, which for convenience we are calling butesin. This local anesthetic was invented by one of our chemists some two or three years ago. The preliminary tests showing that it had merit, it was submitted to Dr. A. S. Loevenhart of the University of Wisconsin for pharmacologic research. His report showed that it was more powerful than anesthesin, and its action about six times as prolonged. It is insoluble in water, and according to preliminary investigations practically nontoxic. As a matter of protection it was patented, but in view of other extensive and more promising research, no effort was made to have it tested out clinically.

The first half of "America's Place in Synthetic Medicinals" was published in last week's issue of DRUG & CHEMICAL MARKETS. Dr. Burdick is one of the leading American authorities on the subject of medicinal synthetics, and in view of the present tendency in Washington to treat this new American industry rather harshly in the matter of adequate tariff protection, his description of the difficulties of the industry, is significant.

The companies which did the actual pioneer work in the United States and the products for which the various ones are chiefly responsible, have been discussed quite fully, and in view of the sinister influences at work to-day to defeat these manufacturers in their fight for existence, the attention of all American consumers of chemicals and drugs is directed to the facts given herewith.

About three months ago we were notified that our patent would be contested by the Societe des Usines du Rhone, the largest manufacturing chemical house in France. This concern has already patented this chemical in France, Germany, Switzerland, Italy and Great Britain. Fortunately we have been able (we believe) to prove priority in the United States. This illustrates how easily our expenditures for research may be nullified.

Expense of Research

Few people realize how expensive it is to "discover" and put on the market a new synthetic chemical. At the present time, in the United States, the manufacturer who wishes to go into this field must take a gambler's chance. The Abbott Laboratories has been willing to take this chance because it believed that the future of any pharmaceutical firm depends upon its ability to measure up to the spirit of the times and bring its business into accord with the changing and developing tendencies of the age. Thus far we have been

satisfied with the result, but we are free to confess that we cannot plumb the future. Our own experience has been that to develop a purely synthetic medicinal chemical, involving what we may call an average degree of difficulty for one of the finer preparations of this class, means a cash outlay of from \$25,000 to \$50,000. I mean that every dollar of this amount will be put into the product before a dollar comes back. This expenditure is for research only; but by "research" I mean not only the money spent by the chemist and pharmacologist but also the outlay involved in turning out the product on an industrial scale. Before we learned wisdom by experience, we have seen some thousands of dollars go down the sewer when a reaction went wrong.

Germany acquired prominence in the medical field because the German government was quick to realize the importance of the chemical industry in both peace and war. There was brought about a closely interwoven and mutually profitable relationship between the universities, the therapeutic research organization, hospitals and clinics, and the manufacturing houses. Say what you will about the Germans, they did not cut each other's throats, and they did not encourage foreigners to come in and scuttle the ship. Their protection was skilful, but absolute. It was external as well as internal. They not only made the goods, but they went out and got the markets.

I do not advocate the adoption of the German method

in this country, but I know that as far as research is concerned it is vitally important that our universities, which are now as finely equipped and turning out as good men as other similar institutions in the world, should receive the best kind of encouragement-the assurance that their graduates will get jobs when they are through, and this can only be accomplished by the protection of the manufacturers who are undertaking to risk their money in a business which, to say the least, is a precarious one. Research in the universities and such scientific institutions as Rockefeller, Sprague, McCormick, Mayo, Brady and other institutes must be linked with research in the manufacturing houses themselves. Further, even the richest of our great research institutions are handicapped by lack of endowment. The manufacturer will not hesitate to spend \$50,000 or more a year in research if there is a reasonable prospect that he will get a run for his money; but \$50,000 a year is the interest of an endowment of a million dollars-and how many universities or other purely research organizations can afford to set aside a million dollars simply for the study of a single drug, which may or may not be valuable when the work is done?

As an illustration of what is being done by the greatest of our research institutions, the Rockefeller Institute, let me quote from a pamphlet entitled "The Future Independence and Progress of American Medicine in the Age of Chemistry," written by Abel, Alsberg, Bacon, Eldred, Hunt, Johnson, Stieglitz, Taylor and Herty, and published by the Chemical Foundation. "The largest and most prominent of these institutions," this pamphlet states, "is the Rockefeller Institute for Medical Research. The staff of this institute consists of ten 'members' with their associates and assistants.

"Two 'members' devote their time to chemical work. The activities of the one relate largely to the structural chemistry of nucleic acids, lipoids, and other important components of the body. Under this 'member,' also, are chemists whose work relates to chemotherapy; their researches have extended to such compounds as derivatives of hexamethylenetetramine, of certain arsenic acids and of quinine. A number of these derivatives have been tested in other divisions of the institute and in the hospital, for their therapeutic action. The other chemical 'member' works in connection with the hospital of the institute and his work at present relates chiefly to refinements in the methods of blood analysis and other methods of clinical interest. A third 'member' of the institute is working on the the fundamental theory of colloids and the application of other physical relations of life phenomena."

This quotation shows not only that the Rockefeller Institute is doing magnificent work, but that even the fine endowment available is only sufficient to scratch the surface from the chemical point of view. Compare the methods employed in this country to devetop chemical knowledge in medicine with those prevailing in Germany. We find that in the latter country there is the most complete possible collaboration covering the whole scale and ending only with the manufacturer, who works hand in hand with the research institute, the clinic, and, most important of all, the government.

The achievements of the last few years, of which we are all justly proud, are due largely to the fact that we were forced to cut loose from the apron strings of German science. We found we could walk alone, and some of us now think we might grow up; but there are people in the United States who still believe that only the Germans know how to make dyes and drugs, and that we should return humbly to our former condi-

tion of scientific dependence. Such a surrender then for surrender it will be—means setting back the hands of the clock so far as the progress of American medicine goes.

The History of New Products

Barbital (Introduced as Veronal)—Authentic figures concerning the volume produced in this country are not available. Judging from our own experience with the product, and only guessing at the amount produced by other manufacturers, I should say the total American production is more than 30,000 pounds a year. Licenses were issued for its manufacture to Antoine Chiris & Co., the Rector Chemical Company and the Abbott Laboratories. As far as I know, the Rector Chemical Company has never produced it in appreciable quantities.

Upon the sale of the assets of the German house of Bayer to the Sterling Products Company, the barbital patent was acquired by this American firm; manufacture was undertaken by the American house of Bayer, its assignee, and the product is now being sold under license from that corporation by the Winthrop Chemical Company of New York. At the present time there are three manufacturers only—Bayer (Winthrop), Chiris and Abbott.

American-made barbital (veronal) is now selling in this country at about half the price asked by German manufacturers in America before the war. In spite of this, Europeans are clamoring for the admission of their product and have offered it for sale in this country at prices only slightly more than the cost of intermediates and raw materials. Considerable quantities have been smuggled into the United States. If American manufacturers are given adequate protection during the critical period of the next few years they will be able to meet any reasonable competition.

Barbital-Sodium, the action of which is virtually identical with that of barbital, is manufactured by The Abbott Laboratories, but the sales are small as compared with barbital.

Cinchophen—Licenses for the manufacture of cinchophen were issued by the Federal Trade Commission to a number of houses, but at the present time only three or perhaps four concerns are producing it in the United States. Until very recently The Abbott Laboratories manufactured it under license from the Federal Trade Commission. At present all producers are manufacturing under license from The Chemical Foundation. Besides our own firm, it is manufactured by the Calco Chemical Company, and by Schering & Glatz, the last firm controlling the trade-marked name Atophan.

Cinchophen, and to a less degree neocinchophen (also made by the Calco Company under trade name Tolysin) has been one of the surprises in chemical manufacture. Before the war atophan was used for the treatment of gout, and for this purpose only. During the last two years particularly, the demand for it has greatly increased-probably because it has been shown to be efficient in the treatment of acute rheumatism and rheumatic conditions generally. Papers by such men as Hanzlik, Chace, Meyer and others have shown it to be less irritant to the stomach and less harmful to the kidneys than the salicylates, while it is equally efficient, if not more efficient, for the relief of pain and as an eliminant. I have reason to believe that many physicians are prescribing it instead of aspirin. Probably 30,000 pounds of cinchophen are being made annually in this country. It is being produced in this country at least as cheaply as in England. German costs of production I am not familiar with. Cinchophen will un-

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doubtedly be the official name of this substance, which TARIFF BILL WILL COME TO A VOTE was formerly known as atophan.

Procaine-This substance was introduced from Germany under the name Novocaine. It is very widely used as a local anesthetic. Probably seventy-five per cent of that sold is used by dentists for the extraction of teeth and for other dental operation. When we began the manufacture of this product I had the beliefwhich I presume is shared by most of you-that a very large amount was employed by physicians. Strangely enough, only relatively little of it is used by the medical profession-a fact which is greatly to be regretted because it is a substance which can be employed easily, safely and profitably in thousands of cases in which operation is performed at the present time under ether or chloroform, or, worse yet, with no anesthetic at all. Such men as Crile of Cleveland and Harris of Chicago are warm advocates of its use in the method of anesthesia called variously "anociassociation" or "nerve block-

Procaine is a very expensive drug to produce, but the price is going steadily downward; it is sold, in quantity, at the present time much more cheaply than it was ever sold by the Germans before the war. Licenses were issued for its manufacture to H. A. Metz & Company, the Rector Chemical Company and The Abbott Laboratories. The present status of its production by the Rector Chemical Co. I am unable to give you, because of certain changes in organization which have taken place in that house. The largest producer is Metz. The quantity sold can only be estimated, but I believe it cannot exceed 3,000 pounds a year.

Luminal is manufactured only by the Winthrop Chemical Company, which operates under the patent owned by Bayer.

Anesthesin is manufactured by The Abbott Laboratories and by H. A. Metz & Co. Its use is increasing. This drug is an effective anesthetic in powder form, and, being insoluble, is of only very low toxicity and therefore can be used safely orally and as a local application. Large quantities are being manufactured into troches and lozenges for the treatment of cough and relief of pharyngeal irritation. It is also being employed in increasingly large quantities in various dusting powders. Anesthesin is a side product in the manufacture of procaine.

New Products-Few physicians or pharmacists realize how much research work has been done in this country by manufacturers of pharmaceutical chemicals during and following the war nor can they understand how great the promise is in the field, providing reasonable protection is given to this industry during the next decade. For instance, "research laboratories are expensive to maintain. It is only through these laboratories that new substances may be discovered which will make America independent of foreign sources of supply." Permit me to call attention to a few of the things which have been accomplished by American firms during the last few years.

During the war, Browning and others in England showed that certain dyes, particularly the flavines and brilliant green, had peculiar value as antiseptics. Of these the flavines (acriflavine and proflavine) are the most valuable. The manufacture of these was not undertaken in the United States until after the close of the war. These are now produced by the Heyl Laboratories, the Van Dyk Company and The Abbott Laboratories. The synthesis of the flavines is exceedingly

(Continued on page 407)

IN THE SENATE, SATURDAY, AUG. 19

Amendment Adopted Giving the President Authority To Increase or Lower Rates-Power to Transfer Products From Foreign to American Basis of Valuation Limited to Coal-Tar Dyes and Chemicals.

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.-A unanimous agreement fixing 4 o'clock in the afternoon of Aug. 19 as the time for the final vote on the tariff was reached by the Senate, last week. Beginning Monday morning, all speeches were limited to ten minutes each, and on Friday voting on individual amendments will be in order, such amendments to be disposed of without debate. The debate has continued with few interruptions for 104 days.

Before voting finally on the flexible provisions of the pending Tariff bill, substantial changes were made in the Senate Friday, in the scheme originally proposed by the Senate Finance Committee. By a vote of 67 to 4, the Senate laid down the rule that the President in increasing or lowering tariff rates, must consider only differences in the cost of production of articles and commodities in this country and abroad, rather than 'differences in competitive conditions."

Western Senators, under the leadership of Senator Gooding, opposed this change on the ground that the high freight rates on farm products from Western points to Eastern markets would thus be excluded from consideration in revisions of rates to be made by the President.

Another amendment adopted by the Senate struck out the authorization to change "forms of duty," that is, to convert ad valorem duties into specific duties or specific into ad valorem duties. The total increases or decreases may not exceed fifty per cent. of the rates specified in the bill, nor may they take effect until sixty days after the required Presidential proclamation putting the new rates in force has been issued.

The authority of the President to transfer products from the foreign to the American basis of valuation is limited by another amendment to coal-tar dyes and chemicals and may be exercised only after it has been found impossible to equalize costs of production by increasing rates on the basis of foreign varuation.

In ascertaining the differences in production costs, the President would be authorized to take into considera-

1. The differences in conditions in production, including wages, cost of material, and other items in cost of production of such similar merchandise in the United States and in competing foreign countries.

2. The differences in the wholesale selling prices of domestic and foreign merchandise in the principal markets of the United States, but in considering prices as factors in ascertaining differences in conditions of competition only "reasonable profits" may be allowed.

3. Advantages granted to foreign producers by their Governments, or by persons, partnerships, corporations or associations in foreign Nations,

4. Any other advantage or disadvantage in compe-

In accordance with the desire of the President, expressed in a letter received by Senator McCumber during the course of the day, a new amendment was proposed by the Finance Committee designating the Tariff Commission as the agency to assist the President in ascertaining differences in production costs. In making its investigation, the Tariff Commission would be authorized to hold hearings and "give such opportunity as it deems necessary or proper for the presentation of material facts in each case and arguments thereon."

The President is directed to make public the findings of the Commission in each case as soon as practicable after the issue of proclamations making rate changes.

New provisions prohibit the transfer of any product from the free list to the dutiable list or from the dutiable list, to the free list, and also prohibit the making of new rates in excess of maximum ad valorem rates specified in particular sections of the bill.

The Tariff Commission is given considerably increased powers to enable it to carry out the enlarged functions given under the flexible tariff scheme.

WILL VOTE FOR A SCIENTIFIC TARIFF

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—Approval of the Frelinghuysen amendment to the pending tariff bill which would give an enlarged tariff commission the power of ascertaining and recommending to Congress tariff rates based on the difference between the costs of production here and abroad, is voiced in statements by Senators Sterling of South Dakota and Jones of Washington, issued by the Committee for the Non-Partisan Scientific Tariff.

Both Senators state that they favor a further step in tariff reform that would give the President power to proclaim rates on findings of fact and recommendations of the Tariff Commission. Congress, however, would have the power to review the findings of the Tariff Commission and to direct the exact procedure under which it would operate.

SALESMEN'S NOMINATING COMMITTEE

President T. R. L. Loud of the Salesmen's Association of the American Chemical Industry has appointed the following Nominating Committee, John A. Chew, chairman; George Ashworth, James M. Keating, A. C. Kalbfleisch, George A. Bode, B. R. Tunison, and William H. Adkins, who are to report with a slate for new officers to be voted on at the annual meeting, which will be held Tuesday, Sept. 12.

Arrangements for the annual dinner of this Association—at which Secretary of Commerce Hoover is to speak—are in charge of the following Committees—Dinner Committee, Fred. J. Signer, chairman; George T. Short, J. Wrench; Invitation Committee, A. H. Pierce, chairman, P. S. Tilden, Francis M. Fargo, Jr., H. A. Stebbins, Frank McDonough, F. P. Summers, H.

B. Prior.

It is understood that the banquet will be held in one of the large hotels in the neighborhood of the Grand Central Palace, as the dinner is held during the Chemical Exposition week, and that invitations to attend it will be extended to the leading executives, salesmen and chemists connected with the industry.

GERMAN SUITS FOR PATENTS DELAYED

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—Attorney General Daugherty has filed a stipulation in the Supreme Court of the District of Columbia consenting to the postponement until Oct. 1 of a suit begun by the Nitrum Aktiengesellschaft, of Zurich and Bodiosi Switzerland, for five patents sold by Francis P. Garvan, former alien property custodian, to the Chemical Foundation.

The patents cover the utilization of nitrogen taken from the air, the manufacture of nitric acid, methods of synthesizing gases, and methods of producing endother-

mic compounds.

PRODUCTION AND PRICES OF DYES IN 1921 MUCH LESS THAN IN 1920

Loss of Foreign Trade and Business Depression Attributed as Causes for Limited Output, by Tariff Commission—Many New Textile Dyes Produced—The Synthetic Organic Chemical Industry

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—The United States Tariff Commission has issued a Census of Dyes and Other Synthetic Organic Chemicals for the calendar year 1921. There is included in this report for the first time a census of synthetic organic chemicals other than those derived from coal-tar. The report shows a largely reduced output of dyes in 1921. This relatively limited production more nearly represents our domestic requirements, for the very high output of the previous year was coincident with a considerable export trade of the United States. This reduced output in 1921 may be accounted for by the loss of most of our export trade; the large stocks carried over from the previous year; and the general business depression.

There were 201 firms engaged in the manufacture of coal-tar derivatives in 1921. The output of dyes by 74 firms exceeded 39,000,000 pounds, a decrease of 56 per cent from that of 1920. The sales during 1921 exceeded 47,000,000 pounds valued at more than \$39,-000,000. The sales exceeded production by 22 per cent, indicating that a part of the domestic consumption for that year was supplied from the large stocks carried over from the previous year's abnormally high production. The sales of dyes for 1921 exceeded the imports of 1914, when the United States imported nearly 46,000,000 pounds and produced over 6,000,000 pounds of dyes from German imported intermediates.

The average price of all dyes in 1921 was 83 cents per pound, compared with a value of \$1.08 per pound in 1920 and a value of \$1.26 for 1917. The tendency has been to reduce both the cost of production and sales price of dyes produced in the United States. In comparing the price of these different years, it should also be borne in mind that the development of dyes each year of greater value and complexity has tended to increase the average value per pound of all dyes produced.

The total quantity of dyes imported in 1921 was 3,914,036 pounds valued at \$5,156,779 or \$1.32 per pound, compared with 3,402,582 pounds valued at \$5,763,437 in the previous year. The imports of 1921 represent 10 per cent of the production and about 8 per cent of the total dye sales during the year. Germany supplied about 48 per cent of the total dyes imported during 1921; Switzerland, 41 per cent; England, 7 per cent, and all other countries 4 per cent of our importation of dyes.

Exports of domestic dyes for 1921 show a decrease of nearly 79 per cent compared with those for the previous year. The value of our exports for 1921 was \$6,270,139 compared with \$29,823,591 in 1920. The total exports of dyes for 1921 were less than for the year 1917, when the first considerable expansion of the domestic dye industry from pre-war conditions occurred.

This great reduction in the export trade may be attributed in part to the general business depression, but the chief cause was the appearance of German dyes, with which the domestic producers have been unable to compete, in such world markets as China, India and Japan.

The total production of synthetic organic chemicals other than those derived from coal-tar; which are used as medicinals, perfumes, flavoring ingredients, solvents, and in numerous industrial processes, was 21,545,186 pounds; the sales amounted to 16,761,096 pounds valued at \$13,746,235.

LATE CHANGES IN TARIFF BILL

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—The Finance Committee submitted nearly 100 amendments to the tariff bill on Tuesday. One amendment to increase the duty on utensils made of aluminum and steel was lost. The duty on chalk was made 30 per cent ad valorem.

Another substantial increase which the Senate had refused to ratify related to dentifrices, soaps, mouth washes and other toilet preparations. The ad valorem in this instance was jumped from 60 to 75 per cent. On artists' paints or colors the rate was increased from 30 to 40 and 70 per cent, according to the way in which the articles are prepared. Chlorate of potassium is now 2 cents instead of 1 cent per pound, while on titanium potassium and all compounds or mixtures containing titanium the increase is from 25 to 30 per cent ad valorem.

The duty on precipitated magnesium carbonate was cut from $2\frac{1}{2}$ to $1\frac{1}{2}$ cents a pound, while oxide or calcined magnesia for medicinal uses was increased from three-fourths of 1 cent to $3\frac{1}{2}$ cents a pound.

WILL VOTE AGAIN ON DYE EMBARGO

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—Senator Frelinghuysen of New Jersey has introduced the following amendment to the Tariff bill providing for the extension of the Dye and Chemical Act:

"That the Dye and Chemical Control Act of 1921 approved May 27, 1921, as amended, shall continue in force for one year after the date of the passage of this act and the United States Tariff Commission is authorized and directed to report to Congress three months prior to the expiration of such Drug and Chemical Control Act the effect of and the probable effect of the expiration of such act."

WESTERN CHEMISTS URGE DYE EMBARGO

The executive committee and the councillors of the Chicago section of the American Chemical Society have sent a telegram to the two Illinois Senators, McCormick and McKinley, urging them to support the proposed embargo on dyestuffs. The telegram reads:

"Chicago Section American Chemical Society is thoroughly convinced that dye embargo is absolutely necessary for proper development chemical industries and that it is to the decided advantage of American users of chemicals. Before it is too late we urge you to reopen the matter and do your utmost in action and support for the embargo."

The message was signed by Carl S. Miner, consulting chemist, chairman; Paul N. Leech, chemist, American Medical Association, vice-chairman; Otto Bendt, treasurer, Lindsay Light Co.; S. L. Redman, advertising manager, Central Scientific Co.; Paul Van Cleef, editor "Chemical Bulletin;" W. R. Smith, head of Department of Chemistry, Lewis Institute; W. Lee Lewis, head of Department of Chemistry, Northwestern University; Julius Stieglitz, head of Department of Chemistry, University of Chicago; A. M. Taylor, chief chemist, General Chemical Co.; L. M. Tolman, chief chemist, Wilson & Co.; R. E. Doolittle, chief, Central Division Bureau of Chemical Co.; H. N. McCoy, radium expert; G. L. Wendt, research chemist, Standard Oil Co.; E. H. Volwiler, research chemist, Abbott Laboratories.

NATION FACING A COAL FAMINE

Industries Begin to Feel Shortage Of Fuel Supply— Little Hope of Relief Even Should the Mines Be Re-Opened Immediately—Iron Furnaces Shutting Down—Other Interests Affected.

Theodore Roosevelt, assistant secretary of the Navy, said in a speech at Rochester, N. Y., last week: "A coal famine would mean that industries would close, hundreds of thousands of unemployed would walk the streets of the cities, the farmers' crops would rot on the ground, the food supplies would fail, the people would be without the necessities of life.

"The President has striven earnestly to bring both strikes to an end. In so doing he has acted as the spokesman of the public. His good offices may yet be successful. Up to this time, however, one party or the other has refused to accept. The responsibility for impending conditions in the country must be faced by those who refuse to accept a reasonable compromise."

The shortage of coal already is felt severely by the iron and steel industry, by sugar refineries, public utilities of all kinds, and to some extent by other industries dependent upon a steady supply.

Reports from Cordiff, England, are to the effect that the American demand for British coal continues unabated. Orders for an additional 500,000 tons have been received in the last few days, making a total of 1,500,000 tons for delivery in August and September. There is a keen demand for anthracite, but, aside from the supply being limited, all the available hard coal is already booked, and the American orders cannot be filled, although some of the applicants have expressed their willingness to pay seventy shillings a ton.

Should it be possible to ship British coal to New York, the attitude of the Longshoremen's Union is likely to prevent the coal being landed. It is reported that the men will strike in sympathy with the coal miners, and thereby shut off all supplies.

In an effort to ease the situation, a syndicate of banks has been formed to finance the allottment of coal to New York, under the rationing plan of Secretary Hoover. Eugenius H. Outerbridge, chairman of the State Fuel Commission, said the Syndicate would provide funds to pay for the transportation of every ton of coal which may come to New York.

It was explained by Mr. Outerbridge that under the plans of Mr. Hoover, the Administration would not assume responsibility for coal deliveries beyond the State line. The allottments must be received and paid for by each State when it crosses the line, and then the distribution would be left to the State to which the allottment falls. The syndicate would be reimbursed by the ultimate consignee when the coal is delivered to the latter.

The shortage of coal in the United States is now estimated at 30,000,000 tons under the normal supply. It was said that New York could hardly expect to ger more than half its normal supply if the strike were settled immediately. In view of the great shortage it was precited that the plan of fuel rationing would have to be continued for at least three months after the end of the strike.

The sugar refineries are feeling the lack of coal already. An official of a leading company said that any further delay in deliveries would cause the remaining reserve supplies to disappear, and the plants would be shut down.

A retail coal dealer who does the largest business in New York, said that no anthracite orders were being filled; that the householder had little or no chance to obtain coal right now. Settlement of the mine strike, he thought, would relieve the situation before winter. Replenishment of coal stocks, he believed, then would be a matter of railroad co-operation. And enough fuel could be rushed from the mines, he added, to care for the demand. This view, it should be remarked, is not in accordance with the statement of most other coal men, who say that even were the mines to re-open tomorrow the supply would not begin to satisfy the demand.

Twelve more iron furnaces in the Chicago, Cleveland, Youngstown, Pittsburgh, and Buffalo districts were forced to suspend last week. Twenty-six furnaces were shut down in July. The "Iron Age" says: "A dozen more blast furnaces have been forced to suspend. As many more are likely to be thrown idle by another week, and indications are that in two weeks several steel plants will be forced to stop.

"It is plainly indicated that for a good many weeks but a small percentage of newly mined coal will go

into the production of iron and steel.

"Chicago steel companies have led for many weeks in percentage of active capacity, but the operating situation there is now approaching a crisis. Shortage of open-top cars and congestion and embargoes on the railroads have been serious complications. Yet for a leading Chicago mill the week has been one of the largest of the year in new orders booked.

"In the Pittsburgh district the Carnegie Steel Company has been meeting the situation by concentrating in its Monongahela River plants and slowing down at outlying plants which it is more difficult to supply with

fuel."

"The coal situation is particularly unfortunate," says "Industrial Digest," "just at a time when the steel industry appeared to have 'turned the corner' toward prosperity. It was recently announced that the U.S. Steel Corporation was operating its plants on an 83% basis and was eight weeks behind in its deliveries. Net earnings for the June quarter were \$27,286,945; fully \$5,000,000 more than the average expectation of the unofficial forecasters. Instead of a deficit, as in the earnings for several quarters preceding, the full dividend on the preferred stock was earned and it was necessary to appropriate only \$1,462,345 from the undivided surplus to pay the common dividend. The quarterly statement also shows continued improvement in the industry. The April earnings were \$7,750,054; the May earnings were \$8,824,887 and the June earnings \$10,711,004.

The "Commercial Digest's" Production Index Number stands this week at 77.685, as compared with 77.785 two weeks ago and 80.020 a month ago. While this shows a further decline from two weeks ago, the rate of decline is not nearly as sharp as it was on July 22. Only the continuance of the coal strike prevented the curve from turning upwards.

SOFT COAL MINE STRIKE ENDED

(Special to DRUG & CHEMICAL MARKETS)

Cleveland, Aug. 16.—Immediate resumption of bituminous coal mining in seven States was ordered Tuesday by officials of the United Mine Workers, following unanimous ratification by a joint conference of operators and mine workers of an agreement continuing the old wage scale and working conditions in the industry to April 1.

DU PONT ROYALTIES ON GERMAN PATENTS

(Special to DRUG & CHEMICAL MARKETS)

Wilmington, Del., Aug. 16.—E. I. du Pont de Nemours & Co. have filed in answer to the suits brought against it and the Treasurer of the United States by the Chemical Foundation for an accounting of royalties paid for the use of the German dye patents. The suits involved the money paid for the use of these patents from April 10, 1919, when they were purchased by the Foundation, to September 1, 1920, on which date the Government license under which the operations had been conducted by the du Pont company were terminated. The amounts are stated to be \$61,884 and \$10,103, respectively.

The action is based on the Chemical Foundation's contention that all moneys paid under license for the use of the German patents from the day they were purchased should go to the Foundation and not to the

United States Treasury.

The du Pont company is party to the suit only because it has already paid the money into the United States Treasury, and the action seeks mainly to discover the amount so paid. In each case the answer recites that the company obtained its license from the Federal Trade Commission, and operated under this license until the date of its termination in September, 1920. It sets forth in each case the amount of money. \$61,884.98 and \$10,103.88, which was paid to the Alien Property Custodian from April 1, 1919, to September, 1920. The answer also says the amount paid was a fair and reasonable royalty for all use made of the inventions.

NO PROTECTION FOR POTASH

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—When the Senate voted down the plan for a government bounty of \$9,500,000 for domestic potash producers and rescinded its former action in voting an impost of 2 cents a pound on white arsenic, both potash and white arsenic were placed on the free list.

The vote against the bounty on potash (32 to 30) included twelve Republicans opposing and three Democrats supporting it. Before considering the bounty, the Senate voted 66 to 1 to strike out the provision by which a tariff duty would have been imposed on potash for five years at the same rates that it was proposed to pay the bounty, 2½ cents for the first two years, 2 cents for the third year, 1½ cents for the fourth year and 1 cent for the fifth year.

ISSUE EMBARGO ON ALL FREIGHT

Cincinnati, O., Aug. 16.—An embargo on all freight without exception effective immediately was ordered on Monday on the Cumberland division of the Louisville & Nashville Railroad and on all points between Corbin, Ky., and Norton, Va., according to an announcement of Louisville & Nashville officials.

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The embargo is due, it was said, to the walkout of the 1,200 members of the "Big Four" brotherhoods at Corbin, Ky., in protest against the use of armed guards and what was said to be defective equipment.

More than 3,000 bags of sodium nitrate were destroyed by fire on Aug. 10, on a lighter in Erie Basin, Brooklyn. The nitrate was being unloaded from the West Jaffrey, a freighter owned by the U. S. Shipping Board. The explosions during the fire sank the lighter. The loss was estimated at \$25,000 for the lighter and \$15,000 to \$20,000 on the nitrate.

TO DISCUSS CHEMISTRY OF PHOTOGRAPHY

The program for the afternoon meetings to be held in the auditorium of the Grand Central Palace in conjunction with the Chemical Exposition, is gradually being whipped into shape. The Technical Photographic and Microscopical Society has announced that portion of its program which has been completed. In addition to other features of interest to the technical photographer and microscopist as an adjunct of chemistry, the following papers have been scheduled:

"The Photomicroscopy of Paint and Rubber Pigments" by Henry Green of the New Jersey Zinc Co.,

Palmerton, N. J.

"Photomicrography in Pulp and Paper Research Problems," by Miss Eloise Gerry and Dr. E. M. Diemer of the Forest Products Laboratory, Madison, Wis.

"Handling of Motion Picture Films," by Dominic S. Mungillo of the Craftsmen's Film Laboratory, New York

"Mechanics of Motion Picture Apparatus," by Clarence W. Gibbs of the Victor Animatograph Co., New York.

"The Motion Picture as an Art in Industry" by Alfred B. Hitchins, Director of the Ansco Research Laboratory, Ansco Co., Binghamton, N. Y.

"Microscopy in Leather Tanning," by Guido E. Daub

of A. F. Gallun Sons Co., Milwaukee, Wis.

"The Use of the Microscope in Textile Work," by Albert H. Grimshaw, of the Textile School, New Bedford, Mass.

"Protozoa & Rotifers: Studies in Microscopic Animal Life," illustrated by Philip O. Gravelle, South Orange, N. J. This paper will be illustrated with motion pictures.

In addition to the meeting sessions of the Technical Photographic and Microscopical Society at the Exposition, the organization will have an exhibit at which the advances in technical photography, microscopy, and in chemistry as a result of these two sciences, will be demonstrated. Many of the problems of the chemical consuming industries, particularly regarding the physical nature of raw materials and finished products, have received the attention of members of the society and can be discussed with the investigators at the Exposition.

MAKING CHEMICAL PLANTS SAFE

(Special to Drug & Chemical Markets)
Detroit, Mich., Aug. 16—The National Safety Council has completed the program for the annual congress to be held at Detroit, Aug. 28 to Sept. 1, and the Chemical Section has been assigned Tuesday, Aug. 29, and Wednesday, Aug. 30, for reports and papers. S. H. Kershaw, of the safety engineering division of the Hercules Powder Co., is chairman of the Chemical Section; E. J. Riederer, of the Atlas Powder Co., is vice-chairman; and G. E. Minshull, of E. I. du Pont de Nemours & Co., is secretary.

Papers will be read on the following subjects:

Safe Handling of Materials in Chemical Plants—Walter G. Whitman, Assistant Professor of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Mass.

Preventing Vapor and Gas Explosions—F. J. Hoxie, Engineer and Special Inspector, Associated Factory Mutual Fire Insurance Companies, Boston, Mass.

Respirators—Report by Industrial Poisons Committee—A. L. Watson, Hooker Electrochemical Co., Niagara Falls, N. Y., Chairman.

Benzol Poisoning, Its Occurrence and Prevention— Chas. F. Horan, Manager, Department of Hygiene and Safety, Hood Rubber Co., Watertown, Mass.

JULY DYE LICENSES FOR IMPORTS FROM GERMANY AND SWITZERLAND FALL

Only 130,386 Pounds of German Colors Wanted, Compared With 214,514 in June—Licenses For 47,406 Pounds From Switzerland Granted Against 182,631 Pounds in June—Demand For British Dyes Increases

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—The Dye and Chemical Control Section, Division of Customs, Treasury Department, issued licenses during July for the importation of 130,386 pounds of dyes from Germany, compared with 214,514 from Germany in June; 17,690 pounds from England, against 4,000 pounds in June; 47,406 from Switzerland, against 182,631 pounds in June. There were no licenses issued for imports from France in July, and none in June.

The dyes from England for which licenses were issued include: Alizarine Green S 15% paste, 1500 pounds; Schultz No. 779, Alizarine Orange A O 20% paste, 2,000 pounds; Chambertine Lake, 2,200 pounds; Schultz No. 746, Cross Dye Green 2 G Cone, 500 pounds; Madder Lake, 990 pounds; Ueta chrime Olive Brown G, 500 pounds; Thionol Brown O, 5,000 pounds; Thionol

Brown R, 5,000 pounds.

The details of July licenses issued for imports of dyes from Germany and Switzerland follow:

Schu No.	ltz Designation of Dye	Germany Pounds	Switzerland Pounds
	Acid Alizarine Grey G		
	Acid Rhodamine B G		
	Acid Rhodamine R		26
	Acid Rhodamine R		110
844	Algol Blue 3 G	485	
820	Algol Brilliant Violet R Pdr	. 130	
870	Algol Corinth R Pdr	. 10	
816	Algol Red 5 G Pdr	. 10	
778	Alizarine V I Extra Pure for lake 20%	6 1,000	
856	Alizarine Astrol B	. 70	
774	Alizarine Black S paste for printing.	. 1,000	
	Alizarine Astrol B Alizarine Black S paste for printing. Alizarine Black W X Alizarine Blue S K Y Alizarine Blue S K Y	. 50	
804	Alizarine Blue S	. 2,640	
855	Alizarine Blue S K Y	. 550	
862	Alizarine Blue W A S	. 1,000	
865	Alizarine Cyanine Green E	. 200	
865	Alizarine Cyanine Green G Extra Pdr	200	
865	Alizarine Cyanine Green 3 G	800	
852	Alizarine Cyanine Green 3 G Alizarine Direct Violet R	. 500	
	Alizarine Emeraldole G	. 100	
	Alizarine Geranole B		
808a	Alizarine Green C	. 200	
805	Alizarine Green S paste	. 500	
893	Alizarine Green C	. 200	
852	Alizarine Irisol R Alizarine Light Blue S E Alizarine Maroon 20% paste Alizarine Red I W S pdr.	625	
858	Alizarine Light Blue S E		1,000
798 .	Alizarine Maroon 20% paste	. 1,300	
780	Alizarine Red I W S pdr	. 2,000	
780 4	Alizarine Red W pur	. 0/2/	
856a	Alizarine Rubinole 3 G	. 505	
856a .	Alizarine Rubinole GW	. 500	
856a .	Alizarine Rubinole R	. 1,970	
858	dizarine Saphirole S E pur	. 200	
8588 .	Alizarine Sapnirole W.SA	2.350	
855	Alizarine Sky Blue B pdr Alkali Fast Green 3 G	. 110	
***	hethosine & R	110	
800	Anthosine 5 B	210	
782	Anthracene Brown R D paste		1,500
	Anthracene Chromate Brown E B		
627	athra Cvanine S		220
1	Anthracyanine Brown G L	. 50	
1	nthracyarine Brown R L	. 50	
1	Anthracyanine Green 3 G L	. 50	
759	Anthruflavone G C paste Anthraquinone Blue S E Extra Powder	1,500	4
1	Anthraquinone Blue S E Extra Powder	100	
853 A	Anthraquinone Violet	100	
I	nthrazurine G	200	
::: 4	Azo Acid Black 3 B L Extra	500	
862 A	dizarine Blue Black B	1,300	
477- 1	Benzo Fast Blue 3 B X	395	
4568	Benzo Fast Blue 4 G L	1,330	
	Benzo Fast Bordeaux 6 B L		
I	lengo Fast Brown G I	30	
1	enzo Fast Brown G L	500	
1	lenzo Fast Brown R L.	625	
	lango Hast Foune H I.		
Î	lenzo Fast Heliotrope B L	750	
F	enzo Fast Heliotrope 5 R H	5	4 6.
F	lenzo Fast Heliotrope B Lenzo Fast Heliotrope 5 R Henzo Fast Heliotrope 2 R L	570	
F	enzo Fast Orange 2 R L	335	
			1.

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1702			
Schultz Designation of Dye	Germany	Switzerland	Schultz *Germany Switzerland No. Designation of Dye Pounds Pounds
No. Designation of Dye 332 Benzo Fast Red 8 B L	Pounds . 1,035	Pounds	Diago Brilliant Seculat 2 B Extra 10
332 Benzo Fast Red 9 B L	160		Diazo Brilhant Scarlet ROR Extra
Benzo Light Grey B L	1,100 2,000		
Benzo Rhoduline Red 3 B	200		Conc 70/100 50 Diazo Fast Bordeaux B L 250 Diazo Rubine B 275
326 Benzo Violet O	. 15		Diazo Sky Blue B 700
Brilliant Anthrazurol g Pdr	75		Diazophenyl Black V
Brilliant Benzo Fast Heliotrope B L	200		Diphenyl Brown B B N C 1,000
Brilliant Benzo Fast Violet 4 B L Brilliant Benzo Green B	180		Direct Blue 8 B
Brilliant Benzo Violet B	25	10	Direct Chrome Brown B 50
Brilliant Chrome Violet B Pdr Brilliant Fast Blue G G Brilliant Indigo N	500		Direct Clear Blue F F
			343 Direct Red 8 B L
Brilliant Sky Blue 8 G Extra 562a Brilliant Wool Blue FFR Extra 613 Chinoline Yellow KT Extra Conc	1,005		Eclipse Brown BK 7,500
Unioramine Brown tr			191 Fails B Faton
Chloramine Red 8 B		3,200	121 171 172 173 174 175
451 Chloramine Fast Blue R L	710	660	
451 Chloramine Fast Blue R L	••	242 1,441	Erio Chrome Green O
Chlorantine Fast Brown 3 G L Chlorantine Fast Brown R L		936	29 Erio Chrome Red B
Chlorantine Fast Red 7 B L		686 110	Erio Chrome Red G 2,590 260 Erio Chrome Verdon S. 500 858 Erio Fast Cyanine S E. 1,200
Chlorantine Fast Violet 2 B L Chlorantine Fast Violet 4 B L		1,100 2, 31 0	506 Erioglaucine A P
Chlorantine Fast Violet 4 B L Chlorantine Fast Yellow 4 G L Chlorantine Fast Yellow R L		175 1,320	608 Euchrysine G R N T N
Chlorophyli P	**	15	Euchrysine R R X
Chlorophyli S		15 15	2,000 2,00
Chlorophyli S Chlorophyli SK Chlorophyli SK SS2 Chromal Blue G C Chromatal Black B F.		1,000	Fast Red R L Base paste 10
Chromanil Black B F	500	2,000	Fastigen B
Chrome Acetine Blue S		220	Hansa Yellow 5 G
640 Chrome Azurine E		1,013 220	892 Helindone Green G paste 4
Chrome Brown T V		660 55	913 Helindone Orange R 10%
139 Chrome Citronine V	• • • •	55	910 Helindone Pink A N 10% paste 325 910 Helindone Pink B N paste 1,100
140 Chrome Citronine R 139 Chrome Citronine V Chrome Purpurine J J Powder Chrome Rhodine B N Powder Chrome Rhodine 6 G N Extra	• • •	112 112	910 Helindone Pink B N 10% 100
		112 242	Helindone Pink & Extra
882 Ciba Blue C	***	2,000	918 Helindone Red. 3 B
919 Ciba Bordeaux B Pdr		2,200	Helio Fast Violet A L
Ciba Scarlet G Pdr		660 220	Hydron Bordeaux R Dil Paste
910 Ciba Violet B		3,300	Hydron Brown G
193 Cidanone Blue 3 G Paste Pat		1,069 2,200	Hydron Green G paste 100
868 Cibanone Brown B paste	• • •	660 550	Hydron Fink F F
858 Cibanone Brown R paste	•••	2,970 2,211	Immedial Direct Blue B 1,000
795 Cibanone Yellow R paste		1,386	840 Indanthrene Blue 3 G paste
Cloth Fast Green G	***	660 880	840 Indanthrene Blue 3 G
Cloth Fast Yellow R	500	660	760 Indanthrene Golden Orange G 400
373 Congo Orange R 516 Crystal Violet 10 R	200		760 Indanthrene Golden Orange G sand free 950 760 Indanthrene Golden Orange G dbl. pst. 1,500 761 Indanthrene Golden Orange RRT 3,850
516 Crystal Violet Extra	205		765 Indanthrene Green B Dbl for printing 100
Cvanole Blue			977h Indonthrene Pink R Dhl naste 175
546 Cyanole E P	50		831 Indanthrene Red B N Extra 810
Diamine Azo Blue R	100		Indanthrene Pink B S pdr.
440 Diamin D. Carlet S	/3		849 Indanthrene Vellow G P pdr 600 705a Indocyanine B
Diamine Catechine R	100		Isamine Blue 8 B 25
Diamine Catechine G	200		Isamine Blue R
Diamine Fast Black Extra	3,600		1
Diamine Fast Bordeaux 6 B S Diamine Fast Brown G	1,000		Kryogene Violet 3 R X 300
Diamine Fast Brown G Diamine Fast Brown 3 G Diamine Fast Orange E G	200		Lanasol Brown 2 R
· · · · · · · · · · · · · · · · · · ·	95		Lanasol Green G
Diamine Fast Rubine F B Diamine Fast Yellow R	200	40	Lanasol Orange R R
Diamine Great D AT	and a		Langeol Vellow G
Diamine Orange G	10		Leather Black B O. 364
273 Diaminogene Blue B B.	119		
			Methyl Alkali Blue 25
274 Diaminogene Extra Diaminogene Sky Blue N. 276 Diamond Green S S	500		515 Methyl Violet N F B
OUT DIMMONG PROSERVING Z (v.	100		Methyl Violet R L 5
364 Diazo Brilliant Black B	1.275	7,500	Milling Yellow O 100
Diazo Brilliant Orange G R Extra.	200		635 Modern Violet
Diazo Brilliant Scarlet 2 B L Ext	ra		(Continued on page 409)
Conc	305		

QUOTATIONS ON CHEMICAL STOCKS

Bid	Asked	Bid	
Air Reduction 531/2	56	Heyden Chem 1	178
*Allied Chem. & D. 723/4	73	H'k Electro 55	65
*Allied Ch. & D., pf.108	109	H'k Electro, pf 60	70
*Am. Ag. Ch 361/2	37	*Int. Agricult 81/2	91/4
*Am. Ag. Ch., pf 623/4	63	*Int. Agricult., pf 37	371/2
*Am. Chicle 95%	97%	*Int. Nickel 173/4	18
*Am. Chicle, pf 291/2	33	*Int. Nickel, pf 81	821/2
*Am. Cot. Oil 253/4	261/2	*Int. Salt 65	71
*Am. Cot Oil, pf 51	54	*Mathieson Alk 46	47
*Am. Cyan 15	20	Merck & Co., pf 65	70
*Am Cyan of E2		Merrimac 83	88
*Am. Cyan., pf 53	56	Mulford Co 35	40
*Am. Druggist S 544	6	Mutual Co150	
Am. Glue 40	45	*National Lead 991/4	100
Am. Glue, pf 65	70		114
*Am. Linseed 331/2	34	*National Lead, pf.113	144
*Am. Linseed, pf 52	54	N. J. Zinc142	
*Am. Malt 12	13	Niag. A., pf 96	100
*Am. Zinc 1734	177/8	Parke, Davis & Co.103	104
*Amer. Zinc, pf 44	47	Penn. Salt 71	73
Atlas Powder126	132	People's Gas. Chi. 901/2	91
Atlas Powd., pf 834/4		Procter & Gamble124	128
British Am. Chem., 1		Procter & Gam., pf102	106
By. Prod. Co 57	65	Rollin Ch 50	60
Carborundum135	1351/2	Rol. Ch., pf 80	90
Carborundum, pf1151/2	116	Royal Bak, Po105	110
Casein Co 30	45	Royal Bak. Po., pf. 98	100
Celluloid Co 95	100	Sherwin-Williams 26	261/4
Celluloid Co., pf 105	106	Sherwin-W., pf 93	97
Ches. Mfg190	200	Stand. Ch 90	100
Ches. Mfg., pf108	111	Swan & Finch 32	35
Com'l Solv. A 46		*Tenn. C. & Chem. 97/8	10
Do. B	9.9	*Tex. Gulf. Sul 4734	483/8
*Corn Products11334	1141/		58
*Corn Products, pf119	1141/4		
*Davison Chem 48	120	*Un. Drug 781/4	80
Day Cham	49		50
Dow Chem.	200	*Un. Drug, 1st pf 481/4	45
Dow Ch., pf	103	*Un. Dyewood 35	100
*Du Pont de Nem. 132	139	*Un. Dyewood, pf. 75	
*Du P't de Nem.Db. 821/2	831/2	Un. Gas, Imp 38	39
Eastman Kodak 761/8	761/4	Un. Gas, Imp., pf 50	51
*Freeport, Tex. Sul. 20	21	U. S. Gypsum	54
Freept. Tex. Sul., pf. 91	93	*U. S. Indus. Al 65	653/9
*Grasselli128	132	*U. S. Indus. Al., pf. 941/2	961/2
Grasselli. pf100	1011/2	*VaCar. Ch 271/2	283/4
Hercules Powder162	170	*VaCar. Ch., pf 62	631/2
Hercules Powd., pf.100	102	*V. Vivaudou 111/2	121/3
	Stock E	xchange	

The balance sheet of the General Asphalt Co. and subsidiaries combined, covering operations for the first six months of the current year, will show a loss of about \$272,000, of which \$63,000 covers charges to earnings toward the retirement of the debentures of the new Trinidad Lake Asphalt Co., Ltd., the remaining \$209,000 being a trading loss for the six months. Continuing deficits for the first five months were reduced in part by fair earnings in June. The business of the company during the first few months of the present year was somewhat better than for the previous year. although prices obtained for manufactured products were severely competitive.

The International Nickel Co. reports total income of \$220,737 for the quarter ended June 30, against \$509,-202 in the same period last year. After payment of Federal taxes and allowing for depreciation and shutdown expenses, there was reported a deficit of \$59,575, against a surplus of \$179,402 last year. On June 30 the company had a profit and loss surplus of \$9,822,-576, against \$11,931,890 on the same date last year. Cash on hand was \$1,032,491, against \$1,210,260 and cal! loans outstanding were \$1,013,000, against \$1,513,000. were valued at \$7,908,012, Inventories \$12,213,948.

The Committee on Listing of the New York Stock Exchange has admitted to the trading list the temporary certificates for Virginia-Carolina Chemical Co. fifteenyear 71/2 per cent sinking fund convertible gold bonds, due July 1 1937 with stock participation warrants attached, and temporary certificates for fifteen-year 71/2 per cent sinking fund convertible gold bonds. Series A, due July 1, 1937, with stock participation warrants attached.

NEWPORT CO. BONDS QUICKLY SOLD

An issue of \$3,000,000 first mortgage 7 per cent, tenyear sinking fund gold bonds of the Newport Co. was offered at 981/2 and interest by Dillon, Read & Co. and sold within eight hours.

At the offering price the bonds yield about 7.20 per cent. The bonds are a direct obligation of the company, specifically secured by a direct first mortgage lien upon the entire physical property of the company. The company has a plant at Carrollville, Wis., near Milwaukee, another at Passaic, N. J., and owns coa! mines in Kentucky, producing its own crude material for coal-tar, intermediates and dyes.

The advance in American Linseed common and preferred on Monday, says the "New York Times," tracted considerable attention. Both issues rose more than two points, but in the afternoon, when the balance of the list sold off, the common lost a good part of its early gains. Wall Street heard that "brokers associated with Standard Oil interests" were buying the stock, Such reports can never be confirmed, but speculators lost little time in explaining the advance in the stock. Attention was called to "hidden assets," it being declared that the company is carrying its supplies of linseed at 40 cents a gallon, whereas the market price is in the neighborhood of 80 cents. It was also said that some early action might be taken on resuming dividends on the preferred stock.

Butterworth-Judson stock, preferred and common, was sold in the Auction Salesroom in Vesey street, New York, last week as follows: 2,580 shares of preferred with dividends unpaid from Jan. 1, 1916, at 50c per share; 1,442 shares of preferred with dividends unpaid from Jan. 1, 1918, at 50c per share; 5,635 shares of common stock at \$2,000 for the lot.

Corn Products, after selling as high as 1153/8, reacted to 1131/2, the closing figure on Monday, Aug. 14, on profit taking by persons who were liberal buyers of the shares a few weeks ago.

The Union Carbide and Chemical Co., announces a quarterly dividend of \$1 per share payable Oct. 2, to holders of record Sept. 6.

New Incorporations

Turner Vanilla Co., New York City, \$50,000. T. R. and E. B. Turner, A. H. Swart; attorney, C. Marvin, 141 Broadway. Coluth Chemical Co., Indianapolis, Ind. To make dyes and bemicals. T. C. Baker, W. M. Love, T. M. O'Conner, Indian-

apolis.

A. Bell & Son, Inc., Providence, R. I., \$25,000. To make dyes, chemicals, and chemical by-products. C. D. Waite, H. G. Hall, J. M. Clifford, Providence.

Burwall Chemical Corp., New York City, \$500,000. E. C. Beckman, M. Wittlin, E. J. Russo; attorneys, Tison & Melick, 15

man. M. Wittlin, E. J. Russo; attorneys, 1180.
William st.
Interstate Chemical Foundation, Inc., Wilmington. Del., \$2,500,000. Petroleum, natural gas, and mineral products.
Master Chemical Co., Rochester, N. Y., \$10,000. P. S. and L.
Durnherr, S. R. Joffe; attorney, J. E. Whitley, Rochester.
Cluir Chemical Cori., New York City, \$10,000. W. A. Miller,
R. A. Noah, L. Rothschild; attorney, J. I. Wierner, 1482 Broadway. American Opalograph Corp., Long Island City, N. Y., \$100,000. Chemical and drug products. F. J. Kline, Beebe ave., Long Island City. Wosk Manufacturing Co., Wilmington, Del., \$100,000. To make disinfectants

Rayola Chemical Co., Newark, N. J., \$20,000. To make chemicals and chemical products. J. Hughes, T. A. Webb, J. H. Valentine, 126 Commerce st., Newark.

Gardaplant Chemical Co., St. Joseph, Mo., \$30,000. To make chemicals and chemical products. G. Snyder, H. Lake, C. J. Griswold, St. Joseph.

South Side Chemical Co., Irvington, N. J., \$50,000. H. Sperling, H. Teper, Berel Jemel, New York.

Designations—Southern Dyestuffs Co., Va., 40,000 shares preferred stock, \$25 each; 120,000 common, no par value; representative H. B. Brown, 305 5th ave., New York.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, 432-434

BLEACH ADVANCED ON ACTIVE DEMAND

Consumers Still Covering Temporary Requirements Spasmodically—Trade Interest Centered in Arsenic— Caustic Soda Firm—Importers Reduce Sodium Sulfide

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Arsenic, 1/2c tb.

Bleaching Powder, 15c cwt.

Sodium Sulfide, imp., 1/2c tb.

Trend of the Market

	Today	Last Week	Last Month	Last Year
Acetic Acid, Glacialtb.	\$.12	\$.12	\$.11	\$.11
Sulfuric Acid, 66 degton	14.00	14.00	14.00	18.00
Bleaching Powder, Works 100 fbs.		1.60	1.60	2.40
Copper Sulfate100 fbs.		5.95	5.95	5.25
Potash, Caustictb.		.053/4	.053/4	.051/2
Saltpetre, grantb.		.0634	.063/4	.0934
Soda Ash, 58 p.c100 fbs.		1.80	1.80	2.25
Caustic Soda, 76 p.c100 fbs.	3.60	3.60	3.75	3.85
Potassium Bichromate		.10	.10	.12
Average	3.020	3.020	3.035	3.571

Heavy chemical prices are extremely nervous under the strain of frequent rush orders from consumers. So far the policy of covering only immediate requirements has not been abandoned by consumers, and this has resulted in scattered, frequent orders for immediate delivery to cover spasmodic needs. Interest is centered in the arsenic situation following bullish reports from governmental sources in cotton belt. Caustic soda is firm in the spot market on active demand. Importers have reduced sulfide. One maker has advanced lead acetate but others have not followed as yet.

Acid, Acetic—Prices are quoted on a basis of \$2.67½ for 28 per cent in carlots of carboys, works, but it is understood that this basis can be shaded on firm business in some directions in spite of the firmness of lime acetate. Glacial is quoted at \$11.17@\$12.17 per hundred in carlots of barrels at works as to brand. Demand has been slow since the latest price advance.

Acid, Hydrobromic—Makers report slow routine demand at 35c@37c for 48 per cent commercial in lots of ten carboys and less at works. Pure 40 per cent in carboys is quoted at 40c@42c as to quantity.

Acid, Lactic—Makers are moving supplies on a basis of $4c@4\frac{1}{2}c$ for 22 per cent dark and $5\frac{1}{2}@6c$ for 22 per cent light in barrels at works. Importers are offering 80 per cent in barrels at $14\frac{1}{2}c@15c$ spot and quote the lower grades on a par with makers.

Acid, Muriatic—Makers still offer over a range as to brand. Prices are based on 20° in carlots of carboys at \$1.10@\$1.50 but it is extremely doubtful if sales have been made at the higher figure. Business is along routine lines.

Acid, Nitric—Prices are quoted over a range as to brand. The basis is 38° in carlots of carboys at \$5.00 @\$5.65 per hundred at works.

Acid, Oxalic—Prices are holding firm on active demand. Makers name 15½c@16c at works for barrels as to brand. The lower figure is becoming more difficult to do. Spot barrels are quoted at 16½c@16½c.

Acid, Sulfuric—Makers name \$14@\$16 on 66° in tank cars at works and \$9@\$11 on 60° on fair demand. Little new business is being booked on contract.

Alums—Prices are steady at recently prevailing figures. Ammonia lump at \$3.25 in carlots of barrels at works. Potash lump from importers at \$2.75@\$3.00 and from makers at \$4.25 in carlots of barrels at works.

Ammonium Chloride—Imported continues to sell here below the present shipment prices from abroad. Speculators are showing active interest. Offers of imported white granulated are heard at 6c spot although generally named at 6½ c@6½c. Domestic makers name 7½c for either gray or white granulated in carlots of barrels at works. Consumers are taking on only routine supplies but speculative interest is expected to strengthen the situation in the near future.

Arsenic—White arsenic is higher and much firmer on extremely bullish reports from the cotton belt of current scarcities of arsenicals there as well as on active speculative demand for next season's supplies. Spot prices are quoted at 8½c in barrels and 8¾c in kegs.

Barium Chloride—Imported is offered for shipment as low as \$80 per ton for arrival within the next sixty days. Makers quote bags at \$85 f. o. b. works.

Bleaching Powder—Makers have advanced bleach to a basis of \$1.75 in carlots in large drums at works. A little small stuff might be had on the previous basis from outside olders but makers were well agreed at the advanced price.

Copper Sulfate—Continues extremely scarce in spite of the lateness of the season. Occasional odd lots are offered at 6¼c although the nominal prices generally named is nearer 7c.

Lead Acetate—One maker has advanced his price ½c per pound but others have not followed as yet. The price basis is 10½c@11c for white crystals in barrels at works as to brand.

Soda Ash—Makers hold on a basis of \$1.20 per hundred for light ash basis 48 per cent in carlots of bags at works on contract. Spot stocks are to be had at \$1.80 @\$2.15 per hundred flat as to quantity and seller.

Soda, Caustic—Makers report strong demand at their prevailing rate of \$2.50 per hundred basis 60 per cent in carlots at works on contract. Spot stocks are firmer at \$3.60@\$3.75 as to seller and quantity. Export demand continues active.

Sodium Sulfide—Imported fused solid is quoted lower at $3\frac{1}{4}$ c@ $3\frac{1}{4}$ c spot in drums and broken at $3\frac{1}{2}$ c@ $3\frac{1}{4}$ c. Domestic makers quote solid at 4c@ $4\frac{1}{4}$ c and broken at 5c@ $5\frac{1}{2}$ c at works.

Reports from the Louisiana Department of Agriculture state that a serious influx of the cotton leaf worm from Mexico is spreading over the cotton belts in Texas and Louisiana. The seriousness of the pest is increasing the demand for all arsenical compounds and the need is immediate, according to the report. It is stated that any compound of arsenic is valuable in preventing the spread of the worm and that every pound immediately available will be required before the season is over. This unexpected demand has found the makers in a rather tight position as regards supplies and has had a great deal to do with the recent advances on white arsenic here.

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Heavy Chemical Notes

J. A. Cavanagh, manager of the insecticide department of the Dow Chemical Co., Midland, Mich., was in New York last week.

Makers have advanced bleach on strong demand and while there have been a few odd lots offered below the advanced level all producers have made the advance. Imported stuff is insignificant in the present market.

The Atlantic Tar and Chemical Works, Elizabeth, N. J., manufacturers of coal tar products and chemical specialties, will enlarge its plant at an early date. A bond issue of \$500,000 has been arranged, most of which will be used to carry on the extension work.

One of the smaller makers of lead acetate advanced his price late last week. Other makers have not followed as yet and state that it might be unwise for them to advance at present until business in this commodity is a bit more active. The coal shortage and the difficulty in putting through rail shipments are interfering greatly with business in this as in all heavy chemicals.

The Allied Conference on the German situation, in session at London, last week, discussed the French proposition to take over a 60 per cent share in dye and other industries on the left bank of the Rhine. Great Britain, Italy, Belgium and Japan agreed in opposing the French suggestion. They held it would produce no real money from Germany, for the German Government could carry out such a requirement only by buying out 60 per cent of the present proprietors of the industries and handing over their shares to the Allies. But this could be done only by the issue of more paper money, with the result that the present deplorable currency situation would be aggravated.

CHEMICAL EXPORTS IN 1921-22

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 6.—The foreign trade in coaltar dyes, colors and stains, except color lakes, showed a decrease from \$13,577,788 for the fiscal year 1921 to only \$3,805,917 in 1922. Medicinal and pharmaceutical preparations decreased to \$5,383,399, or only one-third of the value of the exports for the fiscal year 1921.

Among fertilizer materials, exports of ammonium sulfate more than doubled in quantity to 168,077 long tons, valued at \$8,720,775, while there was a slight decrease in shipments of phosphate rock. In contrast were the exports of prepared fertilizers for the first six months of 1922, which amounted to only 9,204 tons, valued at \$469,366.

Among the heavy chemicals exports of acetate of lime and glycerin more than doubled in quantity to 27,606,499 pounds (value \$587,174) and 3,625,999 pounds (value \$508,807), respectively; caustic soda rose by 20,000,000 pounds to more than 123,000,000 pounds, valued at \$4,660,815; borax advanced by 150 per cent to 10,094,724 pounds, valued at \$545,601, and silicate of soda and copper sulfate increased slightly to 26,024,366 pounds (value \$279,041) and 4,809,948 pounds (value \$227,019), respectively. On the other hand, the exportation of bleaching powder decreased by 11,000,000 pounds to 26,439,251 pounds, valued at \$502,870, and soda ash showed a decline—from 113,000,000 pounds in 1921 to about 33,000,000 pounds (value \$757,648) in 1922.

The total export trade in chemicals and allied products was valued at \$100,518,943, as compared with \$221,000,000 in 1921. The decline in value of the products exported accounts in a large part for the difference.

PUSHING FOREIGN TRADE IN CHEMICALS

(Special to Drug & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—C. R. De Long, the newly appointed chief of the division, says that inquiries are constantly being received by the bureau in regard to the introduction of American products into various foreign countries. The chemical division, he said, can serve as a means of bringing these opportunities promptly to the attention of domestic manufacturers interested in the specific commodities.

One of the first steps in organizing the drive will be the compilation of a list of domestic firms interested in the development of foreign trade. This list known as the Exporters' Index, will serve as the basis of distribution of information on trade opportunities and conditions in foreign markets.

The following branches of the industry will be handled by the new division: General organic and inorganic chemicals, dyes and coal-tar chemicals, pigments, paints, varnishes, fertilizer and fertilizer materials, botanical drugs, pharmaceutical and medicinal preparations, essential oils, perfumery, cosmetics, toilet preparations, and explosives and fireworks,

The division also expects to organize advisory committees for each of the various branches of the chemical industry to cooperate with the Department of Commerce. Where there is already a trade association existing in the industry contact will likely come through it. Assurances have already been received from trade associations in the chemical industry of their willingness to co-operate with the chemical division in furthering foreign trade.

Another feature of the work of the division will be a periodic analysis of the export and import statistics covering the products of the chemical industry.

BRITISH CHEMICAL PRICES STEADY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Manchester, England, Aug. 5.—The domestic demand for heavy chemicals decreased in July, but prices remained steady, according to S. W. Royse & Co. The export enquiry has been only moderate and the erratic courses of exchange continue to hinder over-sea trade generally. Sulfate of copper has been in regular request for both home and export account but there is little change in values. Green copperas has been in better demand but competition continues keen.

Acetates of lime have been quiet and prices have a lower tendency. Acetic acid has been freely offered from recent arrivals at low prices. Acetate of soda is in short supply with values well maintained. Acetates of lead and nitrate of lead are firmer with the advance in the metal, which has also affected the values of litharge and red lead. Carbonate of potash has an improved enquiry and prices are well maintained. Caustic potash is in only moderate request. There is nothing doing in Montreal potashes. Yellow prussiate of potash is in short supply, and again dearer; soda is more plentiful but firmly held. White powdered arsenic has been moving freely but values are unchanged.

There has been a little falling away in the demand for tartaric acid and cream of tartar and holders of stocks have been realizing at lower prices but the raw material position is very firm. Makers of citric acid are well booked ahead. American bichromates are still offered freely and British makers have reduced their prices, but the consuming demand is only moderate.

The Imperial Potash Council has raised German domestic potash prices on an average of thirty per cent. Old prices apply on orders received to July 19:

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, 432-434

BLEACH ADVANCED ON ACTIVE DEMAND

Consumers Still Covering Temporary Requirements Spasmodically—Trade Interest Centered in Arsenic— Caustic Soda Firm—Importers Reduce Sodium Sulfide

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Arsenic, 1/2c tb.

Advanced
Bleaching Powder, 15c cwt.
Declined

Sodium Sulfide, imp., 1/2c fb.

Trend of the Market

	Today	Last Week	Month	Year
Acetic Acid, Glacialtb.	\$.12	\$.12	\$.11	\$.11
Sulfuric Acid, 66 degton		14.00	14.00	18.00
Bleaching Powder, Works 100 tbs.		1.60	1.60	2.40
Copper Sulfate100 lbs.		5.95	5.95	5.25
Potash. Caustictb.		.053/4	.0534	.051/2
Saltpetre, granb.		.063/4	.0634	.093/4
Soda Ash, 58 p.c100 tbs.		1.80	1.80	2.25
Caustic Soda, 76 p.c100 fbs.		3.60	3.75	3.85
Potassium Bichromatetb.		.10	.10	.12
Average	3.020	3.020	3.035	3.571

Heavy chemical prices are extremely nervous under the strain of frequent rush orders from consumers. So far the policy of covering only immediate requirements has not been abandoned by consumers, and this has resulted in scattered, frequent orders for immediate delivery to cover spasmodic needs. Interest is centered in the arsenic situation following bullish reports from governmental sources in cotton belt. Caustic soda is firm in the spot market on active demand. Importers have reduced sulfide. One maker has advanced lead acetate but others have not followed as yet.

Acid, Acetic—Prices are quoted on a basis of \$2.67½ for 28 per cent in carlots of carboys, works, but it is understood that this basis can be shaded on firm business in some directions in spite of the firmness of lime acetate. Glacial is quoted at \$11.17@\$12.17 per hundred in carlots of barrels at works as to brand. Demand has been slow since the latest price advance.

Acid, Hydrobromic—Makers report slow routine demand at 35c@37c for 48 per cent commercial in lots of ten carboys and less at works. Pure 40 per cent in carboys is quoted at 40c@42c as to quantity.

Acid, Lactic—Makers are moving supplies on a basis of 4c@4½c for 22 per cent dark and 5½@6c for 22 per cent light in barrels at works. Importers are offering 80 per cent in barrels at 14½c@15c spot and quote the lower grades on a par with makers.

Acid, Muriatic—Makers still offer over a range as to brand. Prices are based on 20° in carlots of carboys at \$1.10@\$1.50 but it is extremely doubtful if sales have been made at the higher figure. Business is along routine lines.

Acid, Nitric—Prices are quoted over a range as to brand. The basis is 38° in carlots of carboys at \$5.00 @\$5.65 per hundred at works.

Acid, Oxalic—Prices are holding firm on active demand. Makers name 15½c@16c at works for barrels as to brand. The lower figure is becoming more difficult to do. Spot barrels are quoted at 16½c@16½c.

Acid, Sulfuric—Makers name \$14@\$16 on 66° in tank cars at works and \$9@\$11 on 60° on fair demand. Little new business is being booked on contract.

Alums—Prices are steady at recently prevailing figures. Ammonia lump at \$3.25 in carlots of barrels at works. Potash lump from importers at \$2.75@\$3.00 and from makers at \$4.25 in carlots of barrels at works.

Ammonium Chloride—Imported continues to sell here below the present shipment prices from abroad. Speculators are showing active interest. Offers of imported white granulated are heard at 6c spot although generally named at 6½c@6½c. Domestic makers name 7½c for either gray or white granulated in carlots of barrels at works. Consumers are taking on only routine supplies but speculative interest is expected to strengthen the situation in the near future.

Arsenic—White arsenic is higher and much firmer on extremely bullish reports from the cotton belt of current scarcities of arsenicals there as well as on active speculative demand for next season's supplies. Spot prices are quoted at 8½c in barrels and 8¾c in kegs.

Barium Chloride—Imported is offered for shipment as low as \$80 per ton for arrival within the next sixty days. Makers quote bags at \$85 f. o. b. works.

Bleaching Powder—Makers have advanced bleach to a basis of \$1.75 in carlots in large drums at works. A little small stuff might be had on the previous basis from outside olders but makers were well agreed at the advanced price.

Copper Sulfate—Continues extremely scarce in spite of the lateness of the season. Occasional odd lots are offered at 6½ c although the nominal prices generally named is nearer 7c.

Lead Acetate—One maker has advanced his price ½c per pound but others have not followed as yet. The price basis is 10½c@11c for white crystals in barrels at works as to brand.

Soda Ash—Makers hold on a basis of \$1.20 per hundred for light ash basis 48 per cent in carlots of bags at works on contract. Spot stocks are to be had at \$1.80 @\$2.15 per hundred flat as to quantity and seller.

Soda, Caustic—Makers report strong demand at their prevailing rate of \$2.50 per hundred basis 60 per cent in carlots at works on contract. Spot stocks are firmer at \$3.60@\$3.75 as to seller and quantity. Export demand continues active.

Sodium Sulfide—Imported fused solid is quoted lower at $3\frac{1}{4}$ c@ $3\frac{1}{2}$ c spot in drums and broken at $3\frac{1}{2}$ c@ $3\frac{1}{4}$ c. Domestic makers quote solid at 4c@ $4\frac{1}{4}$ c and broken at 5c@ $5\frac{1}{2}$ c at works.

Reports from the Louisiana Department of Agriculture state that a serious influx of the cotton leaf worm from Mexico is spreading over the cotton belts in Texas and Louisiana. The seriousness of the pest is increasing the demand for all arsenical compounds and the need is immediate, according to the report. It is stated that any compound of arsenic is valuable in preventing the spread of the worm and that every pound immediately available will be required before the season is over. This unexpected demand has found the makers in a rather tight position as regards supplies and has had a great deal to do with the recent advances on white arsenic here.

Heavy Chemical Notes

J. A. Cavanagh, manager of the insecticide department of the Dow Chemical Co., Midland, Mich., was in New York last week.

Makers have advanced bleach on strong demand and while there have been a few odd lots offered below the advanced level all producers have made the advance. Imported stuff is insignificant in the present market.

The Atlantic Tar and Chemical Works, Elizabeth, N. J., manufacturers of coal tar products and chemical specialties, will enlarge its plant at an early date. A bond issue of \$500,000 has been arranged, most of which will be used to carry on the extension work.

One of the smaller makers of lead acetate advanced his price late last week. Other makers have not followed as yet and state that it might be unwise for them to advance at present until business in this commodity is a bit more active. The coal shortage and the difficulty in putting through rail shipments are interfering greatly with business in this as in all heavy chemicals.

The Allied Conference on the German situation, in session at London, last week, discussed the French proposition to take over a 60 per cent share in dye and other industries on the left bank of the Rhine. Great Britain, Italy, Belgium and Japan agreed in opposing the French suggestion. They held it would produce no real money from Germany, for the German Government could carry out such a requirement only by buying out 60 per cent of the present proprietors of the industries and handing over their shares to the Allies. But this could be done only by the issue of more paper money, with the result that the present deplorable currency situation would be aggravated.

CHEMICAL EXPORTS IN 1921-22

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The Fine Chemical Market

Current Spot Quotations of Fine Chemicals 420-430

MAKERS ADVANCE ACETYLSALICYLIC

Price Up Owing to Salicylate and Phenol Position— Salicylates Likely To Go Higher—Coal and Rail Strikes Beginning To Be Felt—Cod Liver Oil Higher —Camphor Firm—Quicksilver Uncertain

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Potass. Permang., U.S.P., 1/2c tb. Cod Liver Oil, 50c bbl.

Declined

No. declines

Trend of the Market

		Last	Last	Last
	Today	Week	Month	Year
Acetanilid	\$.30	\$.30	\$.30	\$.33
Acid, Citric, Import	.441/2	.441/2	.441/2	.45
Caffeine, Alkaloid	3.75	3.75	3.75	5.50
Calomel. American	.94	.94	.94	.82
Camphor, Jap., ref	.82	.82	.80	.68
Iodine, Resublimed	4.20	4.20	4.20	3.50
Menthol	6.25	6.25	6.25	4.30
Morphine Sulfate	4.80	4.80	4.80	5.20
Potassium Bromide, Cryst	.23	.23	.23	.24
Quinine Sulfate, Import	.50	.50	.50	.68
Sodium Salicylate	.36	.36	.32	.30
Strychnine Sulfate	.76	.76	.76	1.35
Average	1.89	1.89	1.89	1.97

The fine chemical market developed little of interest during the past seven days. Buying continues apathetic and interest low. The coal and rail situations together with the condition of cable service have aided in keeping activity under cover. The coal strike particularly is making itself felt as reserve stocks are fast disappearing. Potassium permanganate is firmer. New catch cod liver oil is higher on spot. All makers are now at the higher figures on salicylic acid, methyl salicylate, and sodium salicylate. Camphor continues a strong spot in the market. Quicksilver is firm without change.

Acid Acetylsalicylic—Owing to the advance in salicylic acid and the scarcity and higher prices for phenoi, both leading producers of acid acetylsalicylic have advanced prices to an inside of 85clb. in 100 pound lots. Only limited resale lots are available on spot at prices ranging from 75c up to 80clb.

Acid Citric—Some factors report better demand and firmer market. Importers are naming 44½c@45c unchanged with American makers asking 45c@46clb. in barrels. Shipment prices are steady and sellers abroad show no inclination to weaken their ideas.

Acid Salicylic—All manufacturers are now quoting goods at 29c following last week's advance by largest factors in first hand market. All indications point to a further increase in price as the three cent advance hardly covers the sharply higher phenol figures. As for phenol, Government surplus is all but wiped out, little is being made and none imported. Second hands have also moved up and are asking 27c@29c for limited amounts of salicylic. Technical acid quoted at 26c@27c.

Acid Tartaric—Fair demand is noted. Spot stocks continue large. Importers are quoting 28c for crystals and 28½c@29c for powdered. American makers ask 30c unchanged. Figures c. i. f., for import are firm, at spot market levels.

Atropine Sulfate-Importers continue at \$3.50@\$3.60

an ounce, in ten ounce lots and less, following last week's drop.

Bromides—Generally dull with no change in price noted. Importers are offering sodium at 14c@16c, ammonium at 15c@16c, and potash at 13c@14c. American makers quote 29c on ammonium bromide, 22c@23c on potash, and 19c@20c on sodium.

Caffeine—Resale goods selling at \$3.50 spot. American made product held at \$3.75. Little interest is being shown; prices are soft.

Camphor—Spot supplies continue sufficient to supply demand, but are closely held. Japanese refined slabs are firmly maintained at 83c@85c following recent advance. American bulk gum quoted at 90c in first hands, but there are resellers who will do 87½c. Genuine Jap tablets at 95c@\$1.05. American tablets at 95c@98c.

Cod Liver Oil—New catch Norwegian oil higher at \$23.00 spot. Old catch at \$21.00.

Coumarin—Prices continue at \$3.50@\$3.75 in makers' hands. Resale material in limited quantity at \$3.40 @\$3.50. Spot stocks small.

Glycerin—Firm at 16½clb. for C. P. material. Second hands have goods quoted at 15½c. Cans at 17½c.

Hydroquinone—Lower priced hydroquinone being removed from market although some material at 75c is still available. Makers are offering clean white crystals from 80c to 92c per pound. Reported that 90c does not cover present production costs.

Menthol—Quoted unchanged at \$6.25lb. in case lots. Less cases at \$6.40@\$6.50. Shipment prices on goods laid down New York much lower than spot market.

Mercury—Importers have different views as the situation becomes tighter. Qne factor says he has refused orders for 25 flasks at \$57.50, and says the market is \$58.00. In another quarter, quotations on spot quick-silver are heard at \$57.00@\$58.00. Supplies are evidently sufficient to meet normal requirements. Plenty of inquiries are received, but real buying is absent, says one importer. Most of the big consumers reported covered for a short time ahead at prices ranging from \$54.00 to 56.00 per flask. Shippers are naming \$56.00 c. i. f.

Methyl Salicylate—Firm following last week's advance to 39c in 500lb. drums, and 41c in 50lb. cases. Resellers quoting 37c@40clb.

Potassium Permanganate—Firmer at 14c@14½c for U. S. P. small crystal goods. Large crystals at 14½c@15½c.

Quinine—Both imported and American sulfate named at 50c an ounce. Sales made in a small and routine way from limited spot stocks.

Sodium Salicylate—Makers have all advanced to 36ctb. meeting higher schedule published last week by largest factors. Resale goods up to 34c@36c.

The Arlington Chemical Co., 100 Hamilton street, Yonkers, N. Y., will take bids during the current month for the construction of its new four-story works on Harriett street, to be devoted to the manufacture of chemicals and chemical by-products. John E. Andrus heads the company.

Fine Chemical Notes

Wilson I. Doan, of the Dow Chemical Co., New York office, returned, last week, from a visit to the company's main office in Midland, Mich.

Dr. A. Kleber, Clifton Chemical Laboratories, Clifton, N. J., sailed last week for a three months stay in Europe. While Dr. Kleber is away Dr. A. Nicholas will be in charge of the company's affairs.

Edward Von Berlow, general manager of Wilckes-Martin-Wilckes Co.'s chemical department, expects to make a trip to Europe in September. Mr. Von Berlow will spend about two months abroad.

Opium, morphine, heroin, cocaine, and similar products and their salts can only be exported from or imported into Egypt under special license from the Minister of the Interior, according to a recent decree.

Unless the coal strike is settled and operation of mines resumed within the next few weeks many chemical plants throughout the country will be forced to suspend activities. One of the large chemical companies reports that it has only a three weeks' coal supply on hand.

The United States Civil Service Commission has sent out a bulletin announcing a competitive examination on September 20, 1922, for the position of assistant chemist in the Home Economics Department. Other openings requiring men of similar qualifications will be filled with unsuccessful applicants for the above mentioned position.

Harry D. Nims, counsel for Hunyadi Janos Corp., New York, has filed a memorandum with the Senate Finance Committee, advocating an amendment to the administrative section of the Tariff act, for the purpose of protecting the owners of trade-marks registered in the United States against the importation into this country of foreign goods bearing such trade-marks.

There can be no economical production of phenol except in a big way. None of the American manufacturers of salicylic acid are in position to use enough of that material to make volume production satisfactory. The only logical way out appears to lie in the delegation of one company to make phenol for the lot, the product to sell at a figure fair to all. Even if it could be arranged, not many days would pass before some individual in Washington, or elsewhere, would cry "trust" at the top of his lungs.

Chas. L. Huisking, Inc., has this to say of the carbolic acid situation: "With Government stocks out of the way the small quantity of acid being manufactured in this country finds a ready sale. Manufacturers report a heavy demand and their surplus is being used up. The price has been advanced to 17c in large drums. Even if this changed condition makes it necessary to bring in supplies from abroad, the situation cannot be relieved very much because import costs are well above prevailing prices."

Specially denatured alcohol Formula No. 38-B has been amended to read as follows: "To every 100 gallons of pure ethyl alcohol add 5 pounds each of any two of the following United States Pharmacopoeia preparations: Oil of Wintergreen or Methyl Salicylate, Oil of Cloves, Oil of Peppermint, Oil of Cassia. Oil of Eucalyptus, Oil of Rosemary, Oil of Lavender, Oil of Thyme, Oil of Thymol, Menthol Crystals. Anyone desiring to use the above formula must specify in the application which two substances from the above list are selected."

The Coca-Cola Co. earned over \$5.50 per share on its stock during the first six months of this year, after preferred dividends and taxes had been provided for.

AMERICA'S PLACE IN MEDICINALS

(Continued from page 397)

difficult, involving many steps and great expense in the production on an industrial scale. In spite of its high price acriflavine is being used in increasingly large quantities, particularly in the treatment of gonorrhea for which it has certain well-marked advantages. Recently E. G. Davis, of the University of Nebraska and Johns Hopkins University, has shown that acriflavine, taken internally, is an effective urinary antiseptic. He tested it experimentally in comparison with some 400 other remedies, and found it the best of all those which tried. It is also being used in a very limited way intravenously for the treatment of various septicemias.

A product somewhat similar in action, and likewise a dye, which has been developed in this country mainly since the war, is mercurochrome, manufactured and sold by Hynson, Westcott & Dunning, of Baltimore. It is also used mainly in the treatment of gonorrhea. In the field of local anesthetics, Parke, Davis & Co. have produced apothesin, which chemically is the g-diethyl propyl alcohol ester of cinnamic acid. It is giving good satisfaction and is already being widely used. A substance which has been developed as a local anesthetic is saligenin, which has been brought to the attention of manufacturing chemists and the medical profession by Prof. A. D. Hirschfelder of the University of Minnesota. Chemically it is salicyl alcohol. It is being manufactured by the Calco Chemical Company and by Abbott Laboratories. Benzyl alcohol has likewise been suggested as a local anesthetic, and is being used to a limited degree. This is the work of Prof. David I. Macht of Johns Hopkins University.

The Abbott Laboratories has introduced a new local anesthetic under the name butyn. Chemically this is the sulphate of p-aminobenzoyl gamma-di-n-butylamino propanol. So far as we know, this is the first local anesthetic introduced primarily to replace cocaine. It has the advantage of being at least twice as anesthetic as the latter substance, being more rapid in action, giving more prolonged anesthesia, causing no irritation, being stable on boiling, and being slightly antiseptic, and non-narcotic. It is the invention of Professors Roger Adams and Oliver Kamm of the University of Illinois and Dr.E. H. Volwiler of the Abbott Laboratories. The product will be referred to again.

A notable discovery, not distinctly in the synthetic field but yet in a line closely allied to it, was that of thyroxin, the active principle of the thyroid gland. This was made by Dr. E. R. Kendall, of the Mayo Foundation. The prediction is made that this will eventually be made synthetically. This substance is probably much more valuable than anything heretofore known for increasing metabolism in diseases caused by hypothyroidism. It has recently been placed on the market by E. R. Squibb & Co.

A very interesting discovery, made by Dr. David I. Macht of Johns Hopkins University, was that benzylbenzoate, a substance heretofore known principally to perfumers, was in reality powerful antispasmodic. Benzylbenzoate has opened a new field; although it has at times been disappointing in practice, its study has led us into some very interesting research work, to which I will refer later.

The Zonite Products Co., Dover, Del., has incorporated with 10,000 shares of common stock, no par value. The company will make proprietary medicines. E. F. Hutton, 342 Madison ave., is the New York representative.

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The Intermediate and Dye Market

Current Spot Quotations of Intermediates Pages 423-424

PHENOL PRICES STILL ADVANCING

Scarcity of Supplies Felt Keenly Since Depletion of Government Stocks—Uncertainty of Freight Shipments Handicaps Movement of Crudes, Intermediates and Dyes

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced
Phenol, 2c tb.
Declined
No declines

Trend of the Market

		Last	Last	Last
	Today	Week	Month	Year
Benzene, C. Pgal.	\$.30	\$.30	\$.30	\$.27
Naphthalene, flake	.07	.07	.07	.08
Phenoltb.	.17	.15	.12	.09
Xylene, 2 degreesgal.	.45	.45	.45	.60
Toluene, puregal.	.30	.30	.30	.28
Aniline Oiltb.	.14	.14	.14	.20
Benzaldehydetb.	.65	.65	.65	.45
Betanaphthol, dist	.22	.75	.23	.36
Paranitroaniline	.75	.75	.75	-85
o-Toluidinetb.	.16	.16	.16	.25
Average	0.320	0.318	0.316	0.338

Interest in the coal tar group is centered around phenol, The extreme scarcity of phenol following the depletion of government surplus stocks is forcing prices up rapidly and there is no relief in sight as yet. Otherwise there is little change in the generally dull aspect of the market. Consumers are limiting their purchase to barest necessities and the uncertainty of freight shipments has further complicated the situation. On the other hand the coal situation is easing somewhat and coking operations are broadening. Prices throughout the list are being held steady by makers in spite of slowness of demand.

Coal Tar Crudes

Benzene—Stocks still scarce although a trifle easier than a few weeks ago. Prices from refiners hold firm at 30c for C.P. in tank cars at their works and 35c in drums. The 90% grade is moving well at 27c in tanks and 32c in drums.

Naphthalene—Spot stocks are weak on slow demand. Offers of flake down to 6½c in barrels spot are heard. Refiners hold their prices firm at 7c for carlots of barrels at works. Balls from makers are held at 8c in carlots in barrels against resale offers at 7½c in barrels spot. Demand is extremely slow and prices can be shaded for any sizable buying.

Phenol—Large drums are not to be had in the open market below 17c on depletion of government stocks. Natural from refiners has been largely absorbed at 15c @16c as quoted previously. Some little government stuff is to be had in small drums at 17c but the quantity is small. Demand is fairly active and many efforts to cover beyond immediate requirements have been unsuccessful.

Toluene—Refiners still control stocks at prevailing prices. Tank cars are held at 30c and drums at 35c at works. Demand is routine but supplies are not plentiful.

Intermediates

Acid, Anthranilic—Makers hold prices steady on limited demand. Refined is offered at \$1.25 and technical at \$1.10@\$1.15 in ton lots and less in 100th drums.

Acid, Benzoic—Makers offer technical at 45c@50c in ton lots and less in barrels. U.S.P. in good demand at 55c@65c as to brand in barrels.

Acid, Broenner's—Quoted at \$1.55 in barrels on rou-

Acid, Gamma—Routine demand at \$1.80 in ton lots and \$1.85 in single barrels. Few buyers in quantity. Makers will shade quoted figures.

Acid, H—Shading of the quoted price of 75c is reported in several directions on slow demand. Makers seem anxious to take on business even below this figure.

Acid, Laurent's-Mak'ers name 75c@80c as to quantity in barrels on slow routine demand.

Acid, Monosulfonic—Demand is light and variable at makers' quoted price of \$2.30 in 50tb. tins.

Acid, Salicylic—Technical is moving up in sympathy with U.S.P. on the strength of phenol. Nothing better than 24c could be done on new business but a few odd lots might be had below this figure.

Acid, Tobias-Makers hold at \$1.50 in barrels on scat-

Aniline Oil—In at least one direction prices on small lots of aniline have been advanced to 14½c. It is still possible to do 14c however for five drums or less from makers. Carlot prices are held at 13c but few buyers are willing to take on quantities at present. The general attitude of makers is one of firmness.

Aniline Salt—Routine movement at 22c named by makers. Few large lot orders have come in but these might be satisfied below this level.

Benzaldehyde—Demand is slow and prices are well controlled by makers. Technical is named at 65c in 945 tb. drums at works.

Beta-naphthol—Demand is slow but makers are holding prices firm at the recent decline to 22c. Large quantity business might be done below this figure but ton lots are fairly firm at this figure.

Dimethylaniline—Fair demand reported by makers at the prevailing level of 30c@32c for quantity lots in drums. Smaller lots are held up to 34c in single drums.

Diphenylamine—Closely held on slow demand. Makers name 58c@60c as to quantity in barrels.

Meta-toluylenediamine—Makers name 95c@\$1.00 on routine demand in barrels.

Michler's Ketone—Extremely slow at a nominal price of \$3.00 per pound in 225 pound barrels.

Para-nitroaniline—Makers report steady business at prevailing levels. Ton lots can be freely done at 75c and single barrels are quoted up to 79c.

Starches and Dextrins

Business shows some improvement. Prices are steady. British gum at \$3.39@\$3.67 per hundred in carlots and less in bags. Powdered corn starch at \$2.47 in carlots of bags. Corn dextrin at \$3.09 in carlots in bags.

The Grasselli Chemical Co. was upheld in its complaint against railroads which made unreasonable charges for the moving of iron pyrites between Newcastle and DeKalb, Pa. The Interstate Commerce Commission ruled that a refund of \$2,000 should be made.

Dyestuff Notes

H. R. Higgins has severed his connection with the Ciba Co., New York.

Reports from the textile industry indicate a broadening demand for wool colors.

E. I. du Pont de Nemours & Co., announces the addition of a fast brown to its list of wool colors, under the name of du Pont Anthracene Brown Powder. The dye is intended for use on yarns, shoddy, raw stock, tops and pieces, high gnade stiff hats, calico and tapestry printing, and on silk. Chrome mordants must be used.

The phenol situation is causing alarm among consumers, especially the makers of salicylic acid and salicylates. Apparently it will be extremely difficult if not impossible to meet demand from domestic sources and importers report prices abroad even higher than they are here. In the meantime preparations are understood to be under way for the opening of some of the domestic synthetic phenol plants. It has been impossible to confirm this definitely but rumors to that effect are persistent throughout the trade.

DUTY ON ANILINE COLORS CUT

The T. D. Downing Co. and the American Express Co., Boston, won a decision before the United States Board of General Appraisers, in a suit brought to determine whether the reduction of 20 per cent in the special duty on aniline colors, provided by Section 501 of the Act of Sep. 8, 1916, begins at the beginning of the fifth year from said date, namely, Sept. 8, 1921, as claimed by the importers, or at the end of the fifth year and the beginning of the sixth year from said date, namely, Sept. 8, 1922, as claimed by the collector at Boston. Judge Brown said in his decision:

"It seems there was a difference in practice between the ports of Boston and Philadelphia on the one hand and New York on the other as noted in department instructions to collectors in T. D. 39007.

"Following our decision in protest 942107 of April 15, 1922, G. A. 8523 (T. D. 39093), opinion by Sullivan, G. A., the claim of the importers for the 20 per cent reduction in the special duty is sustained and judgment will issue accordingly directing classification at 4c per pound and 30 per cent ad valorem under Title V, sections 500 and 501 of said act."

KUTTROFF, PICKHARDT & CO. WIN DYE CASE

A reduction of 20 per cent in the special duty on certain dyestuffs imported by Kuttroff, Pickhardt & Co. is granted in a decision by the Customs Board. Judge Brown's decision says:

"The merchandise in this case is described as Mounsey olive brown G powder. The appraiser states in his report that it consists of coal-tar color and was returned for duty as such at 30 per cent ad valorem and 5c per pound under Group 3, Title V, Section 501 of the Act of September 8, 1916. The importer claims that the merchandise is entitled to the reduction of 20 per cent of the duty imposed in Section 501 of the same act, and is therefore dutiable at 30 per cent ad valorem and 4c per pound under Sections 500 and 501 of said act.

"Following the decision in G. A. 8523 (T. D. 39093) the claim of the importer for the 20 per cent reduction in the special duty is sustained and judgment will issue accordingly directing classification at 4c per pound and 30 per cent ad valorem under Title V, Sections 500 and 501 of said act."

JULY DYE LICENSES FOR IMPORTS FROM .. GERMANY AND SWITZERLAND FALL

	(Continued from page	407)	
Sch	ıltz Ge	ermany	Switzerland
No.	Designation of Dye F	ounds	Pounds
	Naptha Chrome Violet R		660
	Naphthamine Blue J E F	750	
	Naphthol P I pasts	1,000	
217	Naphtylomine Black 4 B	10	
217	Naphtylomine Black 4 B	50 50	
	Neutral Violet O	5	
320	New Claret R X	150	
560	Night Blue	50	
56	Nitrosamine Red paste	30	
118	Oil Yellow R	50	
118	Paper Fast Bordeaux B. Patent Blue V Patent Phosphine G Patent Phosphine M Patent Phosphine R Paccock Blue Lists	1,000	
543 606	Patent Blue V	5,000	
606	Patent Phosphine W		2,640
606	Patent Phosphine P		682
506	Peacock Blue Lake	270	220
606	Phosphine G Phosphine G Conc. Phosphine 2G Conc. Phosphine 3G Conc. Phosphine 3G Conc. Phosphine 5G Conc. Phosphine R Phosphine R	100	
	Phosphine G Conc	100	110
606	Phosphine 2G Conc		110 110
606	Phosphine 3G Conc		110
606	Phosphine 5G Conc		110
606	Phosphine R	100	***
	Pluto Black A Extra	500	
	Pluto Black G	5	
	Pluto Brown 2 G	900	
	Pluto Black A Extra. Pluto Brown 2 G. Pluto Brown R powder. Polar Maroon V Conc. Pyrogene Green 3 G. Rapid Fast Blue B powder. Rapid Fast Brown B powder. Rapid Fast Orange R G paste. Rapid Fast Crange R G paste. Rapid Fast Red B paste. Rapid Fast Red BB paste. Rapid Fast Red G BB paste. Rapid Fast Red GZ paste. Rapid Fast Red GZ paste.	875	
700	Polar Maroon V Conc		2,000
709	Progene Green 3 G	40	1,312
***	Panid Fast Brown P panids	10	
	Papid Fast Orange P C sasts	10	
	Rapid Fast Red R paste	10	
	Rapid Fast Red BR paste		
	Rapid Fast Red 3 GL	10 10	
	Rapid Fast Red GZ paste	10	
211	Rapid Fast Red GZ paste. Resorcin Brown F Rheonine A Conc. Rhodamine G Rhodamine 6 GDN Extra. Rhodamine 8 GDN Extra. Rhoduline Sky Blue 3 G Rosanthrene B Rosanthrene BN	250	
	Rheonine A Conc	51	
572	Rhodamine G	500	
	Rhodamine 6 GDN	200	
	Rhodamine 6 GDN Extra	695	
	Rhoduline Sky Blue 3 G	350	
	Rosanthrene B		154
	Rosanthrene BN Rosanthrene RN Rosanthrene RN Rosanthrene Fast Red 7 B L. Rosanthrene Orange R.		906
***	Rosanthrene R		35
***	Rosanthrene RN		2,057
	Posenthrone Orange P		1,375
	Springer I	700	1,100
530	Soluble Rive T	500	
	Sorbine Red BR	. 100 17	
	Sulphon Yellow 5 G.	100	
709	Sulphur Pyrogene Green 3 G	100	605
	Tannin Orange R pdr	100	605
618	Thioflavine T	230	
618	Thioflavine T C N	775	
	Thio Indigo Rose R N Extra paste	100	
746	Thional Brilliant Green G G		1,500
	Triazol Orange G		1,100
440	Triazol Red 8 B		1,100 2,310
449	Trisuiphon Brown B		2,000
	Vat Bink P France	200	
***	Vat Pink B Extra	10	
550	Victoria Pura Plua P O	200	
307	Victoria Vary Blue B	500	
636	Violet P D H	500	
300	Viridin S powder	5	220
	Wool Black G R	2,000	
	Wool Fast Blue B L	100	
22	Xylene Fast Light Yellow 2 G	100	500
	Xylene Light Yellow 2 G		500
274b	Zambesi Pure Blue 4 B	100	300
	Rosanthrene Fast Red 7 B L. Rosanthrene Orange R. Sericose L Soluble Blue T Sorbine Red BB Sulphon Yellow 5 G. Sulphon Yellow 5 G. Sulphon Yellow 5 G. Sulphour Pyrogene Green 3 G. Tannin Orange R pdr. Thioflavine T Thioflavine T C N. Thio Indigo Rose R N Extra paste. Thional Brilliant Green G G. Triazol Orange G Triazol Orange G Trisuphon Brown B Vat Heliotrope R Dbl for printing. Vat Pink B Extra. Victoria Blue B Base. Victoria Blue B Base. Victoria Pure Blue B O. Victoria Navy Blue B Violet P D H. Viridin S powder. Wool Black G R. Wool Fast Blue B L. Xylene Fast Light Yellow 2 G. Zylene Light Yellow 2 G. Zambesi Pure Blue 4 B.		
	Total	130,386	47,406

REPARATION DYE ISSUE UP AGAIN

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—There is a persistent rumor in Washington, which cannot be confirmed, that the State Department is working out a new plan for the distribution of German reparation dyes. No confirmation of the rumor can be obtained.

There has also been some talk that the State Department in the very near future will call upon the Textile Alliance to turn over to the department the profits which it made on reparation dyes.

The Equitable Powder Co., Fort Smith, Ark., has tentative plans under consideration for the rebuilding of the portion of its plant destroyed by fire recently.

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The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, Page 369

CONSUMERS BUYING LINSEED OIL

Fall Requirements Being Filled Now-Other Vegetable Oils Taken for Immediate Use, But Very Little Bought for Future Delivery-Rosin and Turpentine Lower

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced Lard Oil, 34c tb.

ard Oil, 34c tb. Declined

Cottonseed Oil, 1/2c fb. Menhaden, Crd., 2c gal. Rosin, 5c bbl. Turpentine, 4c gal.

Trend of the	Today	Last Week	Last Month	Last
C. I. O. I. N. P.	\$.56	\$.56	\$.58	\$.44
Cod Oil, N. F	.04	.04	.04	.05
Lard. No. 1	.73	.73	.70	.65
Menhaden, crd.* bbls	.45	.45	.35	.30
Neatsfoot, 20 deg. ct., gal	1.35	1.35	1.65	1.00
Red Oil, distilled	.0814	.083/5	.081/2	.063/4
Stearic Acid, T. P	.103/	.101/2	.101/2	.1034
Coconut, Ceylon, Dom., bbls	.0834	.0834	.083/4	.10
Cottonseed erude, tanks	.0734	.087/4	.093/4	.053/4
Linseed, Carlots, bbls	-88	.88	.84	.74
Olive, denatured	1.12	1.12	1.12	1.45
Peanut, refined	.1334	.1354	.1354	.10
Soya Bean, bbls	.121/2	.121/2	.111/2	.073/4
Average	0.428	0.429	0.448	0.394

Few buyers are showing interest in oils and prices generally tend to ease off somewhat. Consumers are taking nothing in excess of present requirements, with the exception of the linseed oil consumers who are covering Fall requirements now. Cottonseed oil is very soft and lower on the Exchange. Lard oil has been advanced by makers. Menhaden crude is easier following relief from the acute shortage of a few weeks ago. Rosin and turpentine are lower.

Vegetable Oils

Castor Oil—Prices hold firm on regular demand. No. I is quoted at 13c and No 3 at 12c in barrels spot.

China Wood Oil—Continued bullish reports seem to lack foundation. Little activity is noted beyond routine demand. Prices are holding steady at recent levels. Spot barrels at 12½c @13c against 12½c@12¾c for shipment c.i.f. New York from the Orient, Coast oil in sellers' tanks is quoted at 12c on slow demand.

Coconut Oil—Prices hold at recent levels in spite of lack of consuming interest. Ceylon barrels spot at 8½c@8¾c and Cochin at 9¾c@9½c. Manila in sellers' tanks on the Coast at 7c@7½c.

Corn Oil—Soft on lack of interest. Tanks at mills quoted at 834c and barrels at 934c@10c, Spot refined oil in 100 barrel lots at 12c@123/c as to position.

Cottonseed Oil—Offers of crude oil in the Southeast are heard at 8c in buyers' tanks against 734c bid. Prime summer yellow very dull and tending lower on the approach of the new crop as well as on the heavy yields forecasted. On the Exchange prices are 95%c@10c for old oil and 734c@8c for new as to position.

Linseed Oil—Crushers report a firm market on scarcities created by rather heavy contracting for Fall deliveries. Prices are generally held firm at the prevailing levels based on 88c in carlots cooperage. Imported oil is not being sought for forward positions on accoun: of the uncertainty of the tariff situation. Prices on imported oil spot are quoted at 83c@85c in barrels and 78c in tank cars spot. London linseed oil, is lower at 44s per quintal. Antwerp oil is easier at 227 francs per 100 kilos.

Flaxseed prices have dropped in all markets during the week, Buenos Aires quotes lower at \$1.79½ on a steady basis. Duluth is off to \$2.31 for cash seed and down to \$2.21½ for December. Winnipeg prices slumped to \$1.91½ for nearby, and down to \$1.82¾ for December delivery.

Olive Oil—Denatured in slow demand at \$1.12@\$1.15 per gallon in barrels. Foots slightly firmer on spot at 81/4c@81/2c on a par with shipment.

Palm Oil—Soapers show little interest at present and demand is very slow. Prices are quoted unchanged but might be shaded on firm business in quantity. Lagos oil in casks spot at 7c@71/4c. Niger at 51/2c@6c.

Peanut Oil—Little interest is shown by any consumers and prices tend decidedly to softness in sympathy with cottonseed oil. Nominally buyers' tanks at mills are held at 8½c@8¾c but probably this level could be shaded on firm business. Spot barrels are quoted at 12c. Edible oil in barrels spot is inactive at 12½c@13c.

Perilla Oil—Continues active. Prices firm at prevailing levels. Spot barrels at 13½c@14c and shipment at 12½c c.i.f. New York in barrels.

Rapeseed Oil—Steady on routine demand. Refined in barrels spot at 82c@83c and blown at 92c@95c.

Soya Bean Oil—Extremely dull. Coast tanks named at 10c@10½c. American pressed oil in barrels spot at 11c against 12½c asked for the imported.

Animal Oils

Lard Oil—Makers have advanced lard oil slightly to a basis of 10c for No. 1. Prime is unchanged at 103/4c@ 111/4c for technical and 145/6c for edible.

Fish Oils

Cod Oil—Steady at 56c@58c in barrels spot and 53c @55c in tanks.

Menhaden Oil—The acute shortage of a few weeks ago has gradually passed and prices are easier. Carlots of barrels at mills are named at 40c@42c and tank cars at 38c@40c. Refined grades hold on a basis of 60c for light strained.

Sperm Oil—Prices are virtually nominal on a basis of \$1.35 for 38° cold test in barrels spot.

Whale Oil—Coast prices are weak. No. 2 has been offered as low as 5½c per pound in sellers' tanks although generally quoted at 5¾c@6c. No. 1 crude at 6c@6¼c in sellers' tanks. Natural winter whale oil in barrels New York at 70c and bleached winter at 75c.

Naval Stores

Rosin—Low grades are slightly lower. Present range is from \$5.85 for B to \$8.00 for WW.

Turpentine—Lower on spot at \$1.12. Savannah lower at \$1.04½. London prices easier at 86s per quintal.

George W. Lukens who was in charge of the architectural service bureau of the paint department of E. I. du Pont de Nemours & Co., died July 30, after a short illness, at his home in Philadelphia. Mr. Lukens was formerly connected with the Bridgeport Wood Finishing Co., and had a wide acquaintance among the architectural and building trades.

Oil Trade Notes

The Devoe & Raynolds Co. has taken a long lease on a store at 34 E. 42nd st., New York.

The National Silk Dyeing Co., Paterson, N. J., expects to build an addition to its dyeing plant shortly. The cost is estimated at \$15,000.

The Panama Soap Co., San Diego, Cal., is negotiating for a site in Irvington, Cal., for the erection of a new plant. The new company will move its equipment from San Diego to Irvington.

The White Co., manufacturer of paints and varnishes, 208 Water st., Baltimore, will erect one of the largest factories in the city next fall. E. A. Constan is secretary-treasurer of the corporation.

Pratt & Lambert held salesmen's conventions in New York, Buffalo and Chicago, the first week in August. Heads of departments discussed the plans for the coming year in the paint and varnish departments.

Fire, August 2, destroyed the lard refining works of the Morris Co., Chicago, located at St. Joseph, Mo., with loss estimated at \$100,000, including equipment. The company has plans under consideration for rebuilding the plant.

The Benjamin Moore Paint Co., 1600 South Second street, St. Louis, Mo., has awarded contract to Hail & Mackay Construction Co., St. Louis, for rebuilding the portion of its plant recently destroyed by fire, estimated to cost \$75,000.

The Egyptian Lacquer Mfg. Co., 5 East Fortieth street, New York, N. Y., is taking bids for the construction of a new one-story building, 50x100 feet, at Los Angeles, Cal., to be used as a Pacific Coast branch. Mott M. Marston, 533 San Fernando Building, Los Angeles, Cal., is architect.

The Sales Organization of the Philadelphia district of the paint department of E. I. du Pont de Nemours & Co., held a conference, conducted by G. A. Biesecker, sales manager, trade sales division, on Aug. 2, 3 and 4. Among the salesmen present were: H. C. Brown, assistant sales manager; I. P. Amick, J. M. Collins, J. N. Fisher, M. J. Hanger, B. M. Cober, J. C. Holloway, F. T. Houlihan, W. W. Lafferty, R. J. Lewis, A. McCollister, T. S. Dennison, Watson McKee, C. R. Mumpton, A. E. Pearce, P. J. Phelan, G. V. C. Stiles, C. H. Stowell, H. J. Strang, R. C. Swink, W. F. Thompson, W. R. West, B. A. Wilson.

In discussing industrial wage disputes, John Clarke & Co., say: "No American business will be good or really stable until some basis of settlements for industrial wage disputes is found. In our mind no proposition yet advanced will serve, because none of them provide for prompt, final appeals, from the decisions of trade boards, commissions or other semi-judicial or arbitrational bodies, to some tribunal of final appeal, made up of men whom the whole nation would respect and support. Arbitration settlements are ideal, but arbitrators are only human and may err. The safety valve and the way out lie in the direction indicated. It works well, in commercial disputes. It is fair to assume it would work well in industrial differences. A first arbitration decision should never be final, any more than a verdict or ruling of an inferior law court."

PRODUCTION OF VEGETABLE OILS

(Special to DRUG & CHEMICAL MARKETS)

Washington, Aug. 16.—The Department of Commerce announces that, according to census returns, the factory production of fats and oils (exclusive of refined oils and derivatives) during the three-month period ended June 30, 1922, was as follows: Vegetable oils, 202,045,022 pounds; fish oils, 8,891,985 pounds; animal fats, 516,486,940 pounds; and grease, 97,771,944 pounds, a total of 825,195,891 pounds. Of the several kinds of oils and fats covered by the inquiry the greatest production, 406,359,025 pounds, appears for edible and neutral lard. Next in order are tallow with 107,951,296 pounds; linseed oil with 70,348,703 pounds; coconut oil with 47,444,374 pounds; and cottonseed oil with 43,768,292 pounds.

Nearly all the crude vegetable oils are passed through a refining process, although some virgin oil is expressed. The production of refined oil during the three month period was as follows: Cottonseed, 87,147,650 pounds; coconut, 29,926,148 pounds; peanut, 6,779,611 pounds; soya bean, 56,263 pounds; and corn, 16,986,064 pounds.

MAY EXPORTS OF GLYCERIN

Washington, D. C., August 7—Exports of glycerin from the United States, during May, by countries are shown in the following table:

Countries	Pounds	Dollars
Netherlands	147,887	15,619
Canada-Quebec and Ontario	1,829	298
British Columbia and Yukon	35,879	5,891
Panama	1,296	129
Mexico	17,899	2,990
Cuba	4,250	693
Chile	2,768	549
Colombia	1,747	387
China	31,036	4,070
Japan	33,600	5,550
Palestine and Syria	3,200	475
Philippine Islands	2,713	452
Canary Islands	1,250	200

There were no imports of crude glycerin.

PROTEST NEW ALCOHOL RULING

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—A protest has been made to the Prohibition Commissioner by users of industrial alcohol against the new liquor permit procedure as outlined in Prohibition bulletin No. 282 recently made public. The protest asks for an extension of time, it being generally considered that the effective date, Sept. 1, is too short for users to familiarize themselves with the new forms which have not yet been issued.

The statement is made that if the state directors should compel answers to questions propounded in the regulations that it would take several buildings to hold the data which would have to be submitted.

The Newbert Color Co., of Boston, manufacturers of dyestuffs, have issued their financial statement for the fiscal year ended June, 30, 1922, as follows: Assets—Furniture, fixtures and tools, \$4,138; merchandise, \$29,570; notes, \$50,000; accounts receivable, \$63,548; cash, \$7,113; good will, \$50,000; total, \$204,369. Liabilities—Capital stock, \$100,000; accounts payable, \$70,-237; notes payable, \$26,000; surplus, \$6,245; reserves, \$1,415; accrued interest \$472; total, \$204,369.

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The Crude Drug Market

Current Spot Quotations of Crude Drugs, Pages 435-438

ROUTINE PRICES IN CRUDE DRUGS

Quiet Market—Sellers Looking To Fall for Better Consumer Demand—Senega Root Higher—Aletris Scarce and Firmer—Caraway Seed Still Climbs—Cumin Seed Up Sharply—Digitalis Easier

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Agar Agar, No. 1, 8c tb. Aletris Root, 10c tb. Anise, 2c tb. Canary Seed, 3c tb. Caraway Seed, 5c tb.

Cumin Seed, 6c tb.
Peru Balsam, 10c tb.
Saffron Flrs., American, 5c tb.
Senega Root, 8c tb.
Soap Bark, 1/2c tb.

Declined

Arrowroot, ½c lb.
Calisaya Bark, 1c lb.
Ceresin Wax, white, ½c lb.
Cinnamon, 2c lb.
Cloves, ½c lb.
Digitalis Leaves, ½c lb.
Flaxseed, 25c bbl.

Gambier Gum, 34c fb.
Hellebore Root, Powd., 1c fb.
Job's Tears, 2c fb.
Kava Kava Root, 2c fb.
Pepper, black, 34c fb.
Poppy Seed, Dutch, 134c fb.
Spearmint Leaves, 1c fb.

Trend of the Market

·		Last	Last	Last
	Today	Week	Month	Year
Aconite Root, U.S.P	6.22	\$.23	8.21	\$.22
Buchu Leaves, Short	1.05	1.05	1.05	.85
Cantharides, Russian ,	3.60	3.60	4.00	1.75
Cocculus Indicus	.04	.04	.04	.071/2
Ergot, Spanish	1.03	1.03	1.05	1.30
Insect Powder, pure	.52	.52	.32	.36
Ipecac, Cartagena, powd	1.80	1.80	1.80	1.65
Nux Vomica	.07	.07	.06	.11
Opium, gum	6.00	6.00	6.00	5.75
Rhubarb Root, H. D	.55	.55	.35	.23
Tragacanth, No. 1, ribbon	1.75	1.75	1.75	3.50
Wild Cherry Bk. thin nat		.09	.09	.09
Average	1.35	1.35	1.37	1.34

Crude drugs remained generally quiet during the past week, very little in the way of real buying taking place. Current dullness will probably exist until fall season opens new channels for consumers. Spot holdings on a number of articles, particularly seeds, are not large and concerted action from buyers might soon find the spot market exhausted. Price changes occurred in the usual number, advances and declines being about equal in quantity and importance. Aletris root is higher on scarcity here. Among the seeds, anise, canary, caraway and cumin, are higher. Flax and poppy seeds are cheaper. Cloves have quieted down. Peru balsam is again scarce and firmer. Hellebore is lower. American saffron advanced. Digitalis and spearmint leaves easier. Job's tears dropped. Cinnamon and pepper easier.

Arabic Gum—Cleaned sorts quoted unchanged at 16c @17clb. Stocks low and prices are firm. No. 1 white in cases at 25c.

Agar Agar—Sharply higher figures named on agar agar No. 1 due to current spot shortage. Quoted at \$1.28 inside. No. 2 and 3 unchanged at \$1.00@\$1.05 and 90c@\$1.00 respectively.

Aletris Root—Buying activity during the past week found stocks on spot closely held Prices jumped to an inside of 40c ranging to 45c. One factor said that he was unable to uncover any goods for sale early this week. Prices are heard in some quarters as high as 60c.

Anise Seed—Shipment figures have been growing firmer on all seeds and have finally been reflected in higher spot prices. Spanish is held at 19c@19½clb., star at 16c@17c, and Levant at 17c@17½c.

Arrowroot—St. Vincent easier at 7½c@8clb. American off to 5c@6clb.

Buchu Leaves—Bales can be had at \$1.05 inside from lots of recently imported goods. Prices range to \$1.10. Lesser amounts named from \$1.10 to \$1.20 as to quantity and seller.

Calisaya Bark—Sellers are offering at lower figures in a dull market. Prices are heard at 12c@14clb. as to quantity, for spot bark.

Canary Seed—Prices on both Morocco and South American seeds firmer on spot. South American at 4c@4¼c and African at 5¼c@6c. Goods to arrive from Morocco are quoted at 5½c@6c.

Caraway Seed—Has firmed on spot due to scarcity and higher prices abroad. Dutch quoted at 19½c@ 20clb. Importers say that shipment figures are substantially higher than the spot market quotes.

Cantharides—Russian in cases, held at \$3.60@\$3.75 per pound. Powder offered at \$4.00@\$4.25. Chinese whole unchanged at \$1.00 with powder at \$1.25.

Ceresin Wax—Cheaper supplies of white wax are available at 8½c@9clb. Yellow unchanged at 7½c@8½c.

Chamomile Flowers—Hungarian flowers are offered generally at 30c@32c. One lot of old goods priced at 28c. Sales continue in fair volume. Prices are firm. Roman named at 75c@80c.

Cinnamon—Spot Ceylon cinnamon cheaper in some quarters. Quoted at 15c inside with range to 20c according to holder and quantity.

Cloves—Have quieted down somewhat with one selier offering spot spice a half cent under recently advanced figures. Prices from 291/2c to 31c as to seller and quantity. Supplies continue scarce but buyers not active.

Cubeb Berries—Unchanged and weak at 95c@\$1.05c for XX stemless, 90c@95c for ordinary, and 95c@\$1.00 for powdered.

Cumin Seed—Sharp advance in cumin seed noted as spot holdings are reduced. Inside is now 26c.

Digitalis Leaves—Cheaper under pressure of dull market and fairly large spot stocks. Offered at 6½c @7clb.

Elm Bark—Most sellers are asking 30c@32c for bark in 5 pound bundles. Goods are available at 28c however, the bark being up to standard but the bundling loose. One factor expects shipment within a week and quotes 28c to arrive.

Ergot—No change from \$1.00@\$1.10 basis. Market quiet as consumers await new crop offered at 65c c. i. f.

Flax Seed—Whole seed cheaper at \$12.25@\$12.50 perbarrel. Ground off to 6\(4c\)@7clb.

Insect Powder—Holds at 52c@60clb., with buying practically at standstill.

Ipecac Root—Without change at \$1.55lb. on whole and \$1.80 on powdered. Sellers report nothing in the way of real business.

Lycopodium—Lower priced goods still on the market at 75c@85clb. Some sellers have higher ideas ranging up to \$1.00.

Hellebore Root—Powdered white root cheaper as season for insect killers wanes. Named at 15c@16c. Other grades unchanged.

Henna Leaves-Continues firm at 18c@19clb.

Job's Tears—One seller is considerably lower in his ideas offering material at 5c inside. Prices range to 8clb.

Peru Balsam—Spot scarcity again being felt. Prices have stiffened to \$1.75@\$1.85lb.

Pepper—Black Singapore again lower at 9½c@934clb. White pepper firm following last week's advance to 13½c@13½c. Prices on white to arrive in September heard at 12¾c.

Poppy Seed—Genuine Dutch dropped again. Now priced at 20c@21clb. German 20c@21c.

Rhubarb—Whole selling at 55c in cases. Powdered quoted at 60c. Inquiry light.

Saffron—American saffron offered last week at \$1.35 is off the market, the inside being \$1.40. Range is to \$1.50 generally. Some sellers are asking up to \$1.60. Odd lot of Valencian goods still quoted at \$25.00, but the market is at \$27.00 in other cases.

Senega Root—Spot scarcity and high prices being asked in the country have combined to force senega root higher. The best price for spot goods is 80c. Shipment prices are quoted at 72c f. o. b. Considerable inquiry for domestic use and for export noted during week.

Soap Bark—Spot supplies have been decreasing for some time. Scarcity has been reflected in higher prices. Whole bark held at 6½c@7c, and crushed at 8½c@9c. Cut and powdered grades have not advanced but are firm at 8½c@9c and 12c@13c respectively.

Spearmint Leaves—Cheaper offerings of new crop leaves at 23c@24clb.

Valerian Root—Several sellers are asking higher prices for their goods but supplies are still available at 13c. Figures are heard as high as 15c in some quarters.

RAINS HELP THE VANILLA OUTLOOK (Special Correspondence to Drug & CHEMICAL MARKETS)

Vera Cruz, Mexico, Aug. 5.—As a result of the heavy rains, which, although very late this year, began the first part of July and have continued up to date, there is a decided improvement in the outlook for vanilla, and the weather continues favorable for the development of the vanilla beans. The critical period for the vanilla is during the blooming and setting time. Any prolonged hot spells during the next two months would seriously affect the quality and the quantity of the crop. Only 5,991 pounds of whole and cut vanilla beans were exported from this port during the month of July to the United States.

According to a prominent factor in the crude drug trade the Valencian saffron crop for this year will be much below normal both in regards to quality and quantity. It is believed that if the quality is much below last year's yield, importers will experience difficulty getting the goods into the U. S.

A petition in bankruptcy was filed against the Ramsdell Drug Co., dealers in drug supplies, 763 Fifth ave., by these creditors: Edward E. Goodman, \$326; Lester B. Westcott, \$608; John Trivigno, \$607.

New crop Spanish anise seed is about two months away. Offerings are being made at 16c per pound for seed laid down, New York.

The Savoy Drug and Chemical Co., Chicago, has increased its capital from \$12,000 to \$75,000.

URGE REGISTERED TRADE-MARK EMBARGO

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Aug. 16.—Senator Kendrick of Wyoming introduced in the Congressional Record the following telegram from the Wyoming Pharmaceutical Association in connection with the tariff:

"Our committee as a whole in convention assembly has unanimously adopted the following resolutions and requests that you use all possible influence in the proper direction, as the retail druggists of the country recently have been charged on the floor of the United States Senate, with profiteering:

"'Whereas the Senate has defeated the embargo on German dyestuffs, chemicals and medicinals; and

"'Whereas the Germans have driven American manufacturers from South and Central America since the late World War; and

"'Whereas under German monopoly before the war phenacetine, aspirin, veronal, trional, sulfonal, and similar products sold in the United States at \$1 per ounce instead of \$1 per pound as at present; Therefore,

"'Resolved, That the Wyoming State Pharmaceutical Association urges the Senators and Representatives in Congress from this State to make adequate provision in the tariff revision bill, H. R. 7456, pending in the Senate for the protection of American industries and consumers by incorporating the amendment now before the Senate Finance Committee which would prohibit the importation of merchandise into the United States bearing any trade-mark, label, print, or other mark registered in the United States Patent Office and owned by any person domiciled in the United States, unless imported by such owner, provided the owner shall file with the Secretary of the Treasury a certified copy of the registration of the mark."

A similar telegram was also introduced into the Record by Senator Sheppard of Texas from the Texas Pharmaceutical Association.

PHARMACISTS DISCUSS DRUG PLANTS

(Special to Drug & CHEMICAL MARKETS)

Cleveland, O., Aug. 16.—The American Pharmaceutical Association is celebrating the seventieth anniversary of its first meeting. Sessions of the annual convention began on Monday with a symposium on the "Revision of the Pharmacopoeia and National Formulary," which was opened by E. Fullerton Cook, chairman of the U. S. Pharmacopoeia Revision Committee, and Wilbur Scoville, chairman of the National Formulary Committee. The status of drug plant growing in the United States, and the manufacture of cocaine and procaine were the subjects of papers read at Tuesday's session.

More than sixty papers are scheduled for the meeting and the large attendance gives promise of lively discussions during the week. Among the subjects of particular interest is the contribution on "Medical Plants of Bolivia," by Dr. H. Rusby, who returned recently from South America where he collected specimens for the Mulford Exploration.

The U. S. A. Drug & Chemical Co., Jacobs Creek, Pa., is planning a new three-story plant, 72 x 125 feet, estimated to cost \$150,000, including machinery. Peter R. Rossello, 406 Congress Building, Detroit, Mich., is architect

Alfred Vogeler, of Alfred Vogeler & Co., Cincinnati, wholesale druggists, died in Detroit from heart disease, Aug. 6. Mr. Vogeler was 60 years of age. He was born in Cincinnati and spent his life in the drug business.

The Essential Oil Market

Current Spot Quotations of Essential Oils, Page 439; Aromatic Chemicals in Chemical List

PEPPERMINT HOLDERS REFUSE TO QUOTE

Uncertainty as to New Crop Causing Holders to Wait

—Oil Caraway Up Sharply Again—Geranium Oils

Higher—Petit Grain Firmer—Sassafras and Nutmeg

Easier—Neroli Down

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	AC	vanced	
	Anise, Tech., 21/2c tb. Cassia, redistilled, 5c tb.	Oil Geranium, Algerian, \$1.00 b Bourbon, 25c b.	lb
Oil	Cloves, U.S.P., 5c tb. Caraway, 50c tb.	Oil Petit Grain, S. A., 15c fb. Oil Peppermint, 75c fb.	

Oil Cedar Wood, 1c lb.
Oil Mustard, Artif., 15c lb.
Oil Nutmeg, U.S.P., 5c lb.
Oil Neroli, \$3.00 oz.

Trend of the Market

To	oday	Week	Month	Year
Oil Bergamot\$3.	.60	\$3.60	\$3.90	\$5.25
Oil Citronella, Ceylon		.75	.55	.33
	.00	1.95	1.95	1.75
Oil Lemon	.65	.65	.65	.75
	.25	2.25	2.00	1.85
	.85	6.75	7.10	6.60
	.43	.45	.45	.53
	40	1.40	1.40	1.50
Coumarin 3.	.50	3.50	3.00	4.50
Methyl Salicylate, Cans	41	.41	.35	.35
	.45	.45	.50	.50
Average 2	.14	2.02	2.07	2.18

No particular change in the general position of essential oils and synthetic aromatics was in evidence during the past week. A number of price changes were brought out, however, in spite of rather inactive interest in most lines. Peppermint is higher with an uncertain market and most city holders refusing to quote at this time. Citronella is virtually off the market, only regular customers being supplied with any goods at all. Anise has advanced on strength of high quotations, from the Orient. Geranium, Bourbon and Algerian, has advanced as shippers continue to hold for higher prices. Oils bitter orange, nutmeg, neroli, cedar wood, and sassafras are lower. Oils petit grain and cassia have firmed. Methyl salicylate and coumarin are being well maintained at the higher figures. Caraway is up sharply.

Essential Oils

Oil Anise—For some time quotations from the Orient have hovered around 52c c. i. f., which was a bare half cent lower than sellers were getting for oil anise, spot New York. Holders here have advanced their prices to 55c@60c for technical oil and 60c@65c for U. S. P.

Oil Bergamot—Some spot sellers will do \$3.60 on bergamot but the majority are naming from \$3.65 up to \$4.50 for their product according to brand. Import costs average \$3.50. Stocks large and inquiries light. Artificial oil \$2.50@\$2.751b.

Oil Caraway—Sharply higher figures are being named with spot supplies of both crude and U. S. P. oil cleaned out. Such material as is obtainable is held at \$3.75@\$4.00 for U. S. P., and \$3.25@\$3.50 for crude. Scarcity of seed abroad is responsible for etremely high shipment figures quoted from Holland. Importers of crude oil say goods for August-September shipment will cost from \$3.50 to \$3.75 laid down.

Oil Cassia-Has advanced on spot owing to limited

stocks available. Interest continues good. Inside figure on U. S. P. redistilled oil now \$1.85 with prices ranging to \$1.95 as to quality. Owing to strict Government supervision very little technical oil is being handled although a sale of fifty cases at \$1.45 reported last week.

Oil Cedar Leaf—Continues firm with good grade oil held at 90c@\$1.00.

Oil Cedar Wood—Cheaper at 26c@27ctb. under pressure of fairly large stocks with little demand noted.

Oil Citronella—Strict inquiry throughout the market brought to light but one factor with citronella in any appreciable quantity at all most houses are absolutely cleaned out. Such oil as can be had, is being sold only to regular customers of long standing and then only in limited quantity. No such thing as a drum price this week. Price ranges from 75c to 80c per pound spot. Some sellers expect imports of small amounts this week, but most goods have already been sold for arrival. Nothing in a large way is due to arrive before Sept. 15 as no one believed the market strong enough to warrant ordering ahead. Citronella for August shipment is offered at 46c c.i.f. Java oil is quoted unchanged from 75c to 80c per pound. in drums and 85c in tins.

Oil Cloves—The price continues to advance. No further strengthening in spice was in evidence but oil appears to become scarcer and more closely held. No material is to be had under \$2.00 and not a few sales have been made at \$2.10 in cans. Bottles are bringing anywhere from \$2.10 to \$2.20 according to holder.

Oil Geranium—Higher figures are being named here on both Algerian and Bourbon oils. African sellers have been asking stiffer prices for the past month and French growers appear inclined to follow suit. As a result holders in this country have been forced to higher levels since their replacement costs are up. True Algerian geranium is held at \$10.25@\$10.50tb. and Bourbon oil is named at \$6.00@\$6.50tb. Turkish remains practically nominal at \$5.00.

Oil Lavender—Supplies of U.S.P. may be had all the way from \$3.00 to \$4.50 tb. according to grade.

Oil Lemon—No change noted in general market conditions. The price range continues wide, all the way from 65c to 85c according to brand. Most essential oil houses ask 70c or above for their goods. Inquiry is rather limited.

Oil Mustard—Makers' sales agents have reduced artificial U.S.P. mustard prices to \$3.00@\$3.10lb. No particular significance is attached to the drop although competition may have exerted some influence. U.S.P. oil is named at \$17.00.

Oil Neroli—As the new crop made its appearance on the market, prices on both Bigarade and Petale eased off considerably. Bigarade oil is now quoted from \$5.00 to \$6.50 an ounce and Petale is offered at \$7.00 to \$15.00 as to quality. Artifical can be had at most any figure ranging from \$10.00tb. upward.

Oil Nutmeg—Reduction in price has been made owing to condition of market. Quoted at 95c@\$1.05tb. for U.S.P. product.

Oil Orange—Bitter orange is weaker at \$1.90@\$2.00 in the face of poor demand. Sweet West Indian named

at \$2.50@\$2.60, and Italian offered at \$2.80@\$2.90. American at \$3.10@\$3.25. Sales continue slow.

Oil Peppermint—Conditions in the country are so upset at this time that there are no spot sellers willing to quote a price. Principal distillers are firm in their demands at sharply higher figures and others are following closely. The best price from the country is \$3.00 and quotations range to \$3.25 f.o.b. Supplies on spot are limited and in veiw of very uncertain position in the middle west, where a materially reduced crop is indicated, sellers here are sitting tight awaiting more definite information. Some goods might be had from \$3.25 to \$3.50 spot.

Oil Petit Grain—The market has firmed somewhat and South American goods are now quoted at \$1.95@ \$2.00tb. Stocks are not large. French oil continues at \$7.50@\$8.00.

Oil Sandalwood—No \$6.75 sandalwood is offered on the market this week. The best price available is \$6.85 ranging to \$7.00 according to seller.

Oil Sassafras—Quotations on both true and artificial U.S.P. oils heard at lower figures. Offers of 43c artificial material have been made in some quarters by outside holders. Makers are as yet undecided as to whether they will meet this figure and continue to name 45c as their basis. Natural oil cheaper at 80c@85cfb.

Oil Wormwood—Reported firmer, although prices have not changed. Offers at \$2.50 are inside, with range to \$2.50 being made.

Aromatic Chemicals

Coumarin—Spot stocks have not been replenished and goods continue scarce. Prices range from \$3.50 to \$3.75 for coumarin in makers' hands. Some resale material is offered from \$3.40 to \$3.50.

Methyl Salicylate—No marked change following maker's recent advance in schedules The can price is firm at 41c and drums are held at 39c. All makers adhering to these figures. Second hands will not do better than 37c on any quantity.

Vanillin—First hands name 43c an ounce for contracts and on sufficient quantity. Small lots commanding 45c. Resellers quoting 43c.

Imported oil pennyroyal is enjoying a period of rather inflated prices just at present due to the activity of mosquitoes. Used to a great extent in mosquito lotions, to destroy the odor of citronella, this article experienced quite a rise in price when the market was caught short of supplies. Pennyroyal can be imported at a cost of about \$1 a pound laid down in New York, but by the time any is received here the season will be over.

E. M. Laning Co., Inc., importers of perfumers' raw materials and manufacturing chemists, announce their removal to new quarters at 273 Water st., New York This step was occasioned by taking over the representation of H. Euziere & Co., Grasse, France, manufacturers of natural flower oils and various specialties. Laning will act as sole representatives for Euziere in the United States, Canada, and Mexico.

Imports of essential oils continue unusually limited. Last week the following articles were listed: Sweet Italian orange, 53 cases; Sweet West Indian orange, 74 cases; rosemary, 4 barrels; lime, 1 drum, 5 cases, and 2 casks. A shipment of 54 sacks of spermaceti was received from Valparaiso.

George Lueders, Sr., president of George Lueders & Co., who has been confined to his home for some time is reported better. Mr. Lueders expects to be at his desk soon.

ITALIAN LEMON CROP A RECORD YIELD

S. & G. Pasquale, Messina, Italy, manufacturers and distillers of essential oils say in their report of the foreign market:

"It may be said with certainty that the lemon crop will be a record breaker, both as regards quality and quantity of fruit. This fact will not affect prices however, as it costs as much to produce the oil as producers are receiving now. Obviously one cannot sell at a loss. The bergamot and orange yield appear up to the general average for preceding years.

"Adverse weather conditions existing during the past six weeks, over northern and central Europe, have had a marked effect on local business conditions. There are absolutely no orders coming through from the countries in those sections as they evidently have sufficient stocks on hand to meet current demand from consumers.

"Another factor that contributes to general inactivity is the unstable condition of German exchange. Manufacturers in that country are practically prohibited from buying as they do not know from one day to the next where values will stand. There is no immediate prospect of price decline however, as producers figures on most essential oils are even now below actual cost of distilling."

FRENCH ESSENTIAL OILS DULL

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, Aug. 5-Essential oil prices are unchanged and business is dull.

Quotations per Kilo are:

	Francs
Aniseed, Tonka	13.50
Aniseed, Chinese	
Rosewood	
Citronella, Java	
Citronella, Ceylon	. 10
Geranium, Bourbon	.112
Clove	. 43
Palmarosa	
Patchouli	
Petit Grain	
Sandalwood	
Ginger Grass	
Vervain	
Vetivert, Bourbon	
Ylang Ylang, Bourbon, 1st quality	120
Ylang Ylang, Bourbon, 2nd quality	70
Cananga Java	18
Linaloe Mexique	
maior mexique	3/

A report issued by Shipkoff & Co., Ltd., Sofia, Bulgaria, on 1922 distilling activities, would seem to set at rest all rumors relative to the demise of the otto of rose industry in that country. The rose harvest ended earlier than usual, in the middle of June, and the subsequent distillation lasted 25 days. The quality of oil is said to be by far the best since the record crop of 1900. Altogether 65,000 ounces of ottos were distilled, an increase of 20 per cent over last year's figures. Prices for flowers were about equal to last year's but the high yield of oil will make the cost price on ottos about ten per cent less.

No relief from the citronella scarcity appears forthcoming for some time. Goods on the way will hardly make themselves felt, according to general opinion. August-September shipment prices are heard at 46c for oil in bond. That means arrival, at this port, some time in November at a cost of around 55c. A bare market seems to be the outlook.

As cedar leaf is selling for 80c f.o.b. country, it is hard to imagine any real good reason for a seller to go below 90c spot, New York.

The Consuming Industries

MANY SEPTEMBER CHEMICAL MEETINGS

Interest of the Trade Will Center In Convention of American Chemical Society, the Chemical Exposition and Meeting of Electrochemical Society.-Safety Congress To Be Held In Detroit

Chemical associations will hold several meetings during September which are certain to draw buyers of chemicals, drugs, and dyes, who wish to keep in touch with the trade. The American Chemical Society will meet in Pittsburgh, the Eighth National Exposition of Chemical Industries will be held in New York, and the American Electrochemical Society will meet in

Montreal, Canada.

The American Chemical Society with its membership of 15,000 American chemists will get together for its annual meeting in Pittsburgh on Sept. 6 to 9, inclusive. The following week, Sept. 11 to 16, will be given over to the Chemical Exposition at the Grand Central Palace in New York, while the American Electrochemical Society has elected to meet in Montreal the week after the Exposition, beginning sessions on Sept. 21. The date for the Eighth National Exposition of Chemical Industries was selected to come between the meetings of the two societies.

In addition to the meetings of the chemical societies, the Grand Central Palace in New York, the 1922 home of the Chemical Exposition, has been chosen as the meeting place during the week of the Exposition for three other associations connected with the chemical industry. So far plans have been formulated for meetings of the American Ceramic Society, the Salesmen's Association of the Chemical Industry, and the Technical Association of the Pulp and Paper Industry.

Details of the September meetings and conventions

follow:

National Safety Council, Detroit, Mich., Aug. 28-Sept 1. W. H. Carrier, 168 N. Michigan Ave., Chicago. American Chemical Society, Pittsburgh, Pa., Sept. 6-9. Dr. C. L. Parsons, 1709 G. st., N. W., Washington, D. C.

Nat'l Exposition of Chemical Industries, New York, Sept. 11-16. F. W. Payne, 342 Madison ave., New York.

American Electrochemical Society, Montreal, Canada, Sept. 21-23. Prof. J. W. Richards, Columbia University, New York.

Nat'l Wood Chemical Ass'n., Buffalo, N. Y., Sept .--. F. J. Goodfellow, 76 Main st., Bradford, Pa.

Maine State Pharmaceutical Ass'n., Bar Harbor, Sept. 6-8. Dr. M. L. Porter, Danforth, Me.

Indiana State Medical Ass'n., Muncie, Ind., Sept. 27-

29. Dr. Chas. N. Combs, Terre Haute, Ind. Salesmen's Association of the American Chemical Industry, Sept. 12-14. N. W. Haynes, 3 Park Place,

New York. New England Water Works Ass'n., New Bedford, Mass., Sept. 12-15. F. J. Gifford, 715 Tremont Temple,

National Drug & Sundries Exposition, Atlanta, Ga., Sept. 5-6. J. A Metcalf, Grant B'ldg., Atlanta, Ga.

State Medical Society, Green Lake, Wis., Sept. 6-8. Dr. Rock Sleyster, Wauwatosa, Wis.

United Textile Workers of America, Fall River,

Mass., Sept. 11. Sara A. Conboy, 110 Bible House, New York.

Nevada State Medical Ass'n., Reno, Nev., Sept .--. Dr. S. K. Morrison, Reno, Nev.

National Ass'n., of Retail Druggists, Detroit, Sept. 25-29. S. C. Henry, 168 N. Michigan Boulevard, Chicago.

Paint and Oil Club of New England, Boston, Sept. F. L. Moses, 220 Devonshire st., Boston,

New Consuming Companies

Bumet Rubber Co., East Orange, N. J., \$50,000. New Jersey Registration and Trust Co., 525 Main st., East Orange. Southwestern Products Co., St. Louis, Mo., \$25,000. To make

Southwestern Products Co., St. Louis, Mo., \$25,000. To make oap and kindred products. C. B. Brockett, H. W. Jameson, O. I. Chareville, St. Louis.

Green Bros., Inc., East Providence, R I., \$50,000. To make paper products. F. M. George, F. and Harry M. Green, Providence, R. I.

Shingle-Gibb Leather Co., Philadelphia, Pa., \$180,000. Walton Gibb, 4650 Locust st., Philadelphia.

Sunshine Soap Co., Shreveport, La., \$100,000. W. A. Vickers, R. L. Mayfield, J. M. Crimmett, Shreveport.

Cactus Crystal Co., Dover, Del., \$100,000. To make candies. Corporation Trust Co.

Acme Magnesite Stucco Co., New York, \$25,000. B. Blumstein, M. J. Leboyer, E. V. Eichler; attorney, W. L. Greenfogel, 398 Broadway. Radio-Tone Chemical Co., New York, \$100,000. E. G. Coundjeris, G. Manganaris, E. G. Manias, attorney, L. Bleecker, 249 West

Roy Rubber Co., Trenton, N. J., \$100,000. Minnie S. Royal, Morrisville, Pa., H. W. Backes, E. L. Royal, Trenton.

Arthur A. Lehman Co., New York, \$12,000. To make chemical products. A. A. Lehman, J. C. Treadwell, W. T. Easley; attorney, J. Q. Perry, 84 William st.

Monitor Cleaners and Dyers, Brooklyn, N. Y., \$30,000. A. R. and R. K. Techman, N. N. Gross; attorney, D. Groberg, 861 Munhattan ave., Brooklyn.

Edwards Silk Co., Paterson, N. J., \$100,000. P. R. Licker, C. Silberman, Eva B. Baiber, Paterson.

Belgian-American Silk Co., 52 Roosevelt st., Jersey City, N. J., \$1,000,000. To make silk and other textile fabrics.

Eskimo Syrup Co. of Illinois, Dover, Del., \$100,000. To make syrups and extracts. Emerson Chemical Co., Wilmington, Del., \$150,000. Medical pre-

Oak Hill Rubber . Co., Oak Hill, Ohio, \$175,000.

Sunset Rubber Co., Everett, Wash., \$150,000. C. E. Powley, W. McCloud, Everett.

Woodbridge Products Co., Woodbridge, N. J. To make lubriants and soaps. G. M. Anderson, L. F. Kendall. cants and soaps.

Summers Fertilizer Co., Baltimore, Md., \$150,000. W. R. Dresser, W. P. Summers, J. E. Totman.

Melville Fertilizer Co., Tampa, Fla., \$100,000. H. M. Benker, C. W. Nelson, F. C. Stevens, Tampa, Fla.

Physicians Medical Hotel Co., Wilmington, Del., \$11,000,000. To operate sanitariums. Corporation Service Co., Dover, Del. Parke Ross & Co., 538 Lake Shore Drive, Chicago, Ill., \$25,000. To make, buy, sell, and deal in chemicals, extracts and drugs. E. G. Woods, G. H. Green, G. J. McEwen; rep., R. D. Keehn, Otis Bldg., Chicago. Mint-Cola Bottling Co., Fort Worth, Texas, \$100,000.

Hamilton Leather Products Corp., Wilmington, Del., \$250,000. Corporation Trust Co., New York City.

Textile Art Silk Co., Camden, N. J., \$250,000. To make silk and other textile fabrics. Rep., Corporation Trust Co., New York

North American Leather Corp., Wilmington, Del., \$2,650,000. To make and sell leather of all kinds. Incorporated by the Corporation Trust Co.

Tuscumbia Cotton Oil Co., Tuscumbia, Ala., \$50,000. W. H. Jaspon, Houston, Tex., L. Reed, N. A. Graham, Birmingham, Ala. Planters Cotton Seed Products Co., Dallas, Tex., \$100,000. W. H. Jasson, E. L. Flippen, L. Rosenstein.

Southwest Packing Co., Enid, Okla., \$50,000. G. Elfiot, J. Carey, Enid, Okla., A. C. Spaulding, Kansas City, Kan.

Fern Spring Bottling Co., Covans, Md., \$100,000. W. T. M. Lucy, C. A. Goldessen, O. F. Barlow. Union Bleachery, Greenville, S. C., \$400,000. J. W. Arrington, E. A. Smythe, J. W. Arrington Jr., L. B. Poole. The Goodyear Tire & Rubber Co. is the defendant in four suits filed by Mrs. Laura A. Weiss of Cleveland, in behalf of all stockholders of the company. The suit charges that the agreement entered into by the Goodyear company and Leonard Kennedy & Co., New York, by which the latter named firm was to furnish a President and Treasurer for the defendant company was illegal. The Goodyear authorities agreed to pay Kennedy & Co. \$250,000 per year, plus five per cent of all earnings up to \$20,000,000.

The City Council of Fort William, Ont., has ratified an agreement between the city and the Fort William Paper Co., whereby the company will begin at once to construct a paper mill in connection with its present woodpulp plant in that city. The cost of construction will be about \$1,500,000. The pulp plant of this company is at present running night and day and turning out 120 tons of wood pulp daily, practically all of which is being exported to the United States.

The Goodyear Tire & Rubber Co. report for the first half of 1922 shows a net sales total of \$51,410,240. After making allowance for all expenses, including interest on bonds, reorganization charges and outstanding debts, a total of \$1,915,899 was carried over to the surplus account. During June the record for tire sales was broken with a total of 779,590 tires reported sold.

The Harmon Paper Co., Brownville, N. Y., has accepted a contract from the United States Government calling for the manufacture of 7,500,000 postal card blanks. This will take about 460 tons of paper. The company will resume full time operation at once. The officers are John J. Warren, president, and Frederick M. Boyer, secretary.

The Hall-Kale Manufacturing Co., Statesville, N. C., recently incorporated for \$500,000, will begin construction of a plant at Troutman, N. C., at once. Installation of 6,000 spindles will be made when the building is completed. Principal stockholders are J. B. Hall, Statesville; F. D'Olier, Philadelphia, Pa.; J. E. Kale, Lincolnton, N. C.

The General Leather Co., Frelinghuysen avenue, Newark, N. J., has increased its output by installing new sections and now has a capacity of 1,200 salted hides per day. Other Newark leather tanneries which are operated on stiffer schedules are Good Bros. Leather Co., and Straus & Sons.

A cotton mill to cost \$500,000 will be erected near Erwin, Tenn. The site is at Devil's Looking Glass. W. C. Heath, Charlotte, N. C., and R. S. Abernathy, Lincolnton, N. C., are interested in the project.

The Remington Textile Corp., Fall River, Mass., has organized with a capitalization of \$50,000. Kenneth F. Remington, Clinton, Mass., V. S. and B. M. Remington, Fall River, are owners of the company.

The Silk Association of America reports a decline of 10,000 bales in silk imports for July as compared with June receipts. In June about 35,500 bales were imported, as against only 25,500 in July.

The Admiral Braid Works, 273 Admiral street, Providence, R. I., has filed notice of organization. R. G. McCullough is head of the company.

The International Rubber Co. of America, Cleveland, Ohio, has increased its capital from \$20,000,000 to \$23,000,000.

The Continental Rubber Works has appointed W. A. Casey, 41 Warren street, as their representative in New York.

Trade Tips for Sellers

The American Window Glass Co. has resumed operations at its plant at Kane, Pa.

The Belgian-American Silk Co., of 52 Roosevelt ave., Jersey City, capitalized at \$10,000, will manufacture and deal in artificial silks.

The Bradford Dyers' Association, of Bradford, England, has reduced charges on dyeing and finishing, covering a wide range of goods.

The Inter-State Window Glass Co. expects to put its Pennsylvania factory at Kane into commission in a few days. The plant has been idle about three months.

The Nester Silk Manufacturing Co. of Paterson, N. J., manufacturers of broad silks, which was organized in 1916 by Benjamin Lefkowitz, has filed a certificate of dissolution.

The Lafayette Cotton Mills, of Alabama, recently purchased by the Skenandoa Cotton Co. of Utica, N. Y., are to be enlarged to capacity of 70,000 spindles. The mill now has 10,000 spindles.

Over 1,000 silk weavers in Paterson, N. J., went out on a strike last week when their employers refused a demand for a twenty per cent advance in wages. About twenty of the smaller mills were affected.

The Rochambeau Worsted Co., of Olneyville, R. I., incorporated two weeks ago, has purchased five pieces of land, with an aggregate area of about 400,000 square feet. The company will build a mill and manufacture woolen and worsted yarns.

A new dye house, filter plant, and other sections, are being built in Jamestown, N. Y., by the Jamestown Worsted Mills. The extensions and improvements will cost about \$400,000. Lockwood, Greene & Co., Cleveland, Ohio, are engineers in charge.

Six German jute spinning and weaving mills, headed by the Norddeutsche Jute Spinnerel & Weberei of Hamburg, have combined to form a new company with stock capital of 65,000,000 marks. The combined output of the six companies equals three-fourths of the German jute production. Equipment includes 45,000 spindles and 25,000 weaving looms.

The General Refractories Co. incorporated in Pennsylvania, is to acquire the entire stock ownership, assets and business of the General Refractories Company of West Virginia and other companies, the earliest incorporation of which dates back to 1900. The new company will have twelve manufacturing plants with a capacity to produce 247,000,000 refractory brick a year, and constitutes one of the largest companies of this kind in the United States.

Plans for the re-organization of the United States Worsted Co. call for the formation of a new company to acquire the assets and business of the present organization. Under the plans there would be authorized \$3,000,000 of 15-year 6 per cent. debentures of which \$2,868,400 would be issued; 30,000 shares of first preferred stock of which 24,946 would be issued; 10,000 shares of second preferred stock of which 9,652 would be issued, and 125,000 shares of common stock of which 116,664 would be issued. The first and second preferred stock would carry preferential dividends of \$6 a share.

The Foreign Markets

Imports of Drugs, Chemicals, Dyestuffs, etc., Pages 441-442

LONDON CHEMICAL PRICES STEADY

Business Difficult Owing to Fluctuations in Foreign Exchange—Oil Citronella, Balsam Tolu and Senega Root Higher—Cloves, Caraway Seed and Tonka Beans Firmer

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Aug. 16—Conditions are quiet in the crude drug and fine chemical markets. Turkish opium and Spanish ergot are higher. A firmer tone has developed in glucose, phenacetin, and potassium prussiate.

Camphor oil and tartaric acid are easier. Lower prices are announced on shellac, gentian root, Canada balsam, and bicarbonate of soda.

Cutting of the cables to Europe which land in Ireland caused delay in the delivery of cablegrams last week, by the cable companies. The London correspondent of Drug & Chemical Markets filed the weekly cablegram concerning the London market for fine chemicals and crude drugs as usual, but it was not received in New York until after the paper had gone to press.

The cablegram, which was dated August 9, read as follows:

"Business still difficult owing to fluctuations in foreign exchange. Higher prices are quoted on balsam tolu, oil citronella, emetine, gum acacia, and senega root. Buchu leaves, caraway seed, cloves, ipecac and tonka beans are firmer. The market is easier for citric acid, oil eucalyptus, and star anise oil. Quotations are lower for shellac, vanillin and methyl ether."

London, Aug. 5 (By Mail)—With every desire to look on the brighter side of business, and to report some improvement in trade, it is as yet impossible to do so truthfully, the unexampled fluctuations of exchange tending to destroy all confidence, both in buyers and sellers

Acetone has advanced, owing to scarcity of supply, and is now quoted at £73 per ton for British Government specification.

Agar Agar is firmer at 4s 6d per 1b. No. 1 Japanese on spot, and 4s 2½d c.i.f. for new crop to arrive. No. 2 is quoted at 4s 1½d per 1b. on spot, and at 3s 11d c.i.f. to arrive.

Arrowroot is higher, St. Vincent, common to good, fetching 4d to 4¼d per lb. on spot.

Balsam Tolu is scarce and dearer, at from 3s to 3s 3d per lb. on spot.

Buchu Leaves—Higher prices are named, 3s 9d per 1b. being asked for fair round green.

Caraway Seeds are again higher, at 85s per cwt. for Dutch on spot, and 60s for Morocco.

Citric Acid is easier on spot, owing to cooler weather and better supplies. Offers are now reported at 2s 4d

Cod Liver Oil is somewhat firmer, at 105s per barrel for finest non-freezing Lofoten Oil, on spot.

Cream of Tartar is easier, and B.P. may now be bought at 114s per cwt. on spot.

Linseed Oil is firmer, and better business is being done at 45s per cwt. for raw, naked, on spot.

Methylated Spirit—A reduction of 4d per gallon all round is announced to take place on August 1st, mak-

FOREIGN EXCHANGE	Par C	urren
Great Britain (pound sterling)	\$4,886	\$4.46
France (franc)	.193	.081
Italy (lira)	193	.045
Germany (mark) per hundred	23.80	.127
Czechoslovakia (crown) per hundred	20.30	2,520
Poland (mark) per hundred	.23.80	.015
Japan (yen)	499	.476
Spain (peseta)	.193	.155
Holland (guilder)	.402	.387
Belgium (franc)	.198	.077
Norway (crown)	.268	.172
Switzerland (franc)	.193	.190
Sweden (crown)	.268	.262
Denmark (crown)	.268	.214
Argentina (peso)	.424	.360
Brazil (milreis)	.279	.134
China (Silver dollar-Hongkong)	.789	.576
(Tael-Shanghai, silver)	1.082	.762
(TaelPeking, silver)	1.156	.797
Russia—(100 rubles)	51.50	.100

ing prices as follows: For 100 gallons and upwards, Industrial, 61 o.p., 2s 7d; 64 o.p., 2s 8d; Mineralised, 61 o.p., 3s 6d; 64 o.p., 3s 7d per gallon.

Oil Cassia is easier on spot, at 4s 6d per 1b., for 80 to 85 per cent.

Pimento is quiet and easier, at 2d per lb., on spot. Shellac has been easier this week, at 360s per cwt for

usual standard T. N. Orange quality, but is now steady at this price.

Turpentine is lower, at 89s per cwt for American on spot, and a further drop is expected.

MENTHOL CRYSTAL'S ADVANCE IN JAPAN (Special Correspondence to Drug & CHEMICAL MARKETS)

Tokyo, Japan, July 14.—Foreign demands, especially from America, have given the local drug market an impetus that has lifted it, temporarily at least, out of its comparative inactivity. The most important advances are in menthol crystals and peppermint oil. Menthol crystals are quoted at yen 1,330 per 100 kin, an advance of yen 30 over last week's quotation. Peppermint oil has also jumped yen 30.

Retail demand has been small during the month, due to unfavorable weather, and the local market has been depressed. Prices have been unsteady, and the export trade has been poor. Camphor is picking up also, and foreign orders are increasing. It is now quoted at yen 195 per 100 pounds. Atropine sulfate, heroin, morphine and cocaine are in better demand, and prices are steady.

An Egyptian decree says the exemption from excise duty extended to alcohol intended for scientific, medicinal, and pharmaceutical uses will no longer be granted. Another decree of the same date abolishes the right to import into Egypt free of duty tinctures and other alcoholic preparations included in an official Pharmacopoeia. In addition, excise duty will have to be paid on all such preparations still in the Customhouses awaiting clearance. This decision has given rise to considerable dissatisfaction among importers.

In Creil, France, a chemical company accused of emptying waste into a river, and thereby killing the fish, was allowed to test the water by placing in a pail several healthy fish and pouring over them water drawn from the mouth of the company's drain. The fish died in less than two hours and the court gave judgment from 5000 francs against the company.

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases

3027—An importing firm in Belgium desires to purchase and secure an agency for the best quality of caustic soda, absolutely white, and pure acetone, of the best quality, in shipments of 10 tons. Quotations c.i.f. Belgian port, Terms, cash against documents. Reference.

3038—A manufacturer in Mexico desires to purchase a machine for extracting oil from castor beans, of a capacity of 2,540 pounds of beans per day of 10 hours. Quotations, f.o.b. New York. Terms, cash with order. Correspondence, Spanish. Reference.

3047—A manufacturing company in South Africa desires to purchase machinery for making red oxide paint, pug mills, mixers, grinders in oil, etc. Catalogues should be forwarded. Reference.

3051—A merchant in the Canary Islands wishes to purchase pharmaceutical preparations. Quotations, c.i.f. Las Palmas. Payment, cash against documents. Correspondence Spanish. Reference.

ment, cash against documents. Correspondence Spanish, Reference.

3663—A drug company in Canada desires to purchase medicine
bottles of all sizes by the gross; toilet articles, such as soaps,
pastes, talcum powders, and perfumes. Quotations, f.o.b. Canadian
port. Terms, cash. Reference.

3009—The purchase is desired by a merchant in Spain of commercial chemicals, and paints and varnishes. Quotations, c.i.f. Spanish port. Terms, payment against documents. Correspondence, Spanish or French. References.

3072-A hardware merchant in Canada wishes to secure an agency r purchase American varnishes. Quotations, f.o.b. Canadian or purchase American destination. Reference.

3082—The purchase is desired by a merchant in South Africa of machinery for crushing and refining orthoclase feldspar, which has a potash content of over 10 per cent. Capacity of machinery to be 500 tons monthly. Quotations, f.o.b. New York. Payment, letter of credit in United States. References.

3084—A mercantile firm in Italy desires to secure an agency for the sale of paints and varnishes. References.

3091-An agency is desired by dealers in chemicals in Italy for the sale of sulfate of ammonia. Quotations, c.i.f. Italian port. References.

3095—An agency is desired by a firm in Brazil for the sale of austic soda 76°, rosin, "G," "K," and "N" shellac, parafin, ind stearin. Quotations, f.o.b. New York or New Orleans. caustic soda and stearin.

References.

3100-A manufacturing firm in Urugulay desires to purchase copper ingots or copper electroplates in quantity of about 5 tons per month, for making sulfate of copper. Ninety-nine per cent standard copper is required, and electroplate is preferred over ingots; also one-fourth inch copper wire, which is handier to work than plates. Quotations c.i.f. Montevideo preferred. Terms, payment against documents in Uruguay. Reference.

3107—Firm in Czechoslovakia desires to purchase copper in blocks or sheets. Quotations, c.i.f. German, French, or Holland ports. Correspondence, German or Czech. Reference.

ports. Correspondence, German or Czech. Reference.

3110—A manufacturer in Japan desires to purchase toilet articles.
Quotations, c.i.f. Nagoya. Terms: 20 per cent deposit to be made
when placing orders, balance on delivery of goods. References.

3111—A mercantile company in China desires to purchase 2,280
pounds of sulfur dioxide gas in liquid form. Quotations, c.i.f.
Tsingtau. Payment against documents. Reference.

3146—A municipality in Brazil desires to purchase fire-fighting
equipment. Quotations, c.i.f. Brazilian port. Correspondence,
Portuguese. Reference.

3147—There is a market in Mexico for refractory bricks. Quota-tions desired, c.i.f. San Francisco. Payment, cash. 3149—A mercantile firm in Itally desires to secure an agency and purchase mineral oils and greases, and vegetable oils for industrial purposes. Quotations, c.i.f. Italian port. Correspond-ence. Italian or French. References.

3152-An importer in Latvia desires to be placed in touch with manufacturers and exporters of various chemicals. Reference. 3153—A firm of chemical dealers in Belgium desires to purchase industrial chemicals in lots of from 5 to 10 tons, and pharmaceutical products, all of the best qualities. Quotations, c.i.f. Antwerp. Terms, cash against documents. Reference.

In the former Austro-Hungarian Empire, Bohemia was the chief source of supply for glassware of all kinds. The new Austrian Republic has had to import glass bottles and glassware to the annual value of about 12,000,000 cr. To obviate these purchases the Austrian Government decided to utilize one of the now useless war factories, and the works at Wollersdorf have been transformed into a factory for glass bottles. The new works were recently started, and produce daily 4,000 kilos. of glass.

EFFECT OF INFLATION IN GERMANY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Aug. 1.—The recent inflation of German currency increased activity in the chemical trade and the export business is very lively, and decidedly profitable at present. Coal, freight and wages have been advanced considerably, and business is based more on speculation than on careful calculation of costs. Companies in all industries are increasing their capital. The following table shows the increases in the different industries:

Companies	Number		Million Marks
Electric Power Stations	15		1,279.1
Mines and Blast Furnaces	22	. 2	691.5
Machinery	102		606.9
Textile	77		446.3
Electro-Technical	29		416.1
Metalworking	60		364.3
Shipping	10		280.1
Rubber	16		231.7
Coal and Peat	8		226.0
Chemicals	29		215.1
Paper			144.3
Breweries	37		128.2
Woodworking	27		123.2
Building			118.9

German banks raised their capital in 42 cases by 1,298 million marks, and 714 new industrial companies with a capital of 3,422 million marks were formed during the second quarter of 1922, against 232 with 767 million in 1921. Between April and June, 1922, new enterprises were started in the following industries:

. 1	Number	Million Marks
Machinery	. 59	291.3
Commerce	. 59	236.2
Metalworking	49	160.1
Wood	. 42	234.5
Chemicals	. 39	187.2
Textile	. 38	195.5
Food	. 32	169.6
Coal and Peat	. 11	419.1

Prices are rising and the average wholesale index number of the Federal Statistical Office shows an increase from 6,458 in May to 7,030 in June. The index number for corn and potatoes increased from 5,802 to 6,052; for lard, sugar, meat and fish from 5,148 to 6,613: for groceries from 8,621 to 9,254; for food from 5,847 to 6,405; for skins and leather from 7,040 to 8,011; for textiles from 10,604 to 11,851; for metals from 6,489 to 7,029; for coal and iron from 7,061 to 7,469; and for industrial products from 7,602 to 8,197.

The index number for home products (corn, potatoes, lard, sugar, meat, coal and iron) rose from 6,026 to 6,540 and the number for imported goods from 8,617 to 9,479. Among the numbers for foodstuffs the number for lard, sugar, meat and fish shows the strongest increase viz. 28.5 per cent., against 8.9 per cent. of the average wholesale index number. The prices of foodstuffs have increased by more than one hundred per cent. since January. Rationed bread of 1.5 kilo weight (about 3.3 lb.) advanced from 6.25 to 13 marks, butter from 42 to 98 marks per 500 gramm (1.1 lb.), flour (wheat) from 5 to 14 marks (1.1 lb.), soap from 10.50 to 22 marks (1.1 lb.) and margarine from 19.50 to 46 marks per 1.1 lb. The exchange value of the mark decreased during this time. The dollar stood at 186 marks on the second of January against 502 on July 7.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: Chemicals, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; Crude Drugs; Essential Oils, including oleoresins; Fatty Oils, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; Tanning and Dye Extracts, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

PACKAGES—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices when available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f.o.b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oil prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

.WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallan (British)—1.20 American Gallons 1 American Gallon — .833 Imperial Gallon

1 American Gallon —3.79 Liters 1 Liter — .264 American Gallon

1 American Gallon (Water) —8.35 pounds 1 Pound (Avoirdupois) — .454 Kilograms 1 Kilogram —2.20 Pounds

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Chemicals

ACETANILID, tech 150 m bbls m	.25	:	.26	ACID, Carbolic-(Continued)			Acid, hydrofluorie—(continued)			
100 lb km lb	.26	:	.27	Crude, 25% 50 gal bblsgal	.30 :		60% 100 lb cby. wks lb		:	.14
DEP 200 D bbls	.30	2	.31	10%, 50 gal. bblsgal	.15 :	.16	60% 300 m dr., wks m		:	.13
Second Hands	.29	:	.30	Chloracetic,			White Acid, 100 m cby, wks. m	***	:	.26
Acetic Anhydride, 85% 480 m drs. m		:	.37	mono 100 lb bbls, wks lb	:	.32 1/2	White Acid, 10 cbys. wks. Ib	***		.25
85%, 107 b ekys b		:	.40	Di, 150 lb ebys wks lb	:	1.00	Hydrofluosilicie, 35% 450 m bbls.		•	
90% cbys		:	.39	Tri, 425 lb bbls. wks lb	:					10
Acetone, CP 700 m drs. c/l wks m	.13		.1334	Chlorosulfonic, 1500 lb drs.			wks		٠	.12
700 lb drs. lc/l wkslb		:	.14	wks	.15 :	.16	Hypophosphorous, USP 30% 5	,		
350 m drs. le/l wks			.15	Chromic, USP 200 lb drums lb	:	.40	gal. demis		:	1.05
Second Hands, spot Ib	.16		.1634	85% Pure, 200 m drums m	:	.35	USP, 10% 5 gal. demis ID			.37
Acetophenone, CP 1 m bet m	3,50	:	4.00	Chrysophanic, see Chrysarobin						
Acetphenetidin, 150 m bbls m	1.85	:	1.90	Cinnamic, 5 h cans	2.75 :	3.00	LACTIC, 22% dark500 m bblsm	.04		.043
Acetyl Chloride, 100 B cbysB			.35	CITRIC, USP cryst 230 m bbls m	.45 :		22% light, bbls ib	.053		.06
ACID 1, 2, 4, 250 m bbl m	•••	:	.80	Powd., USP 200 m bbls. m	.46 :	.4614	44% dark, bbls	.093		.10
AGIU 1, 2, 4, 200 m mil	***	•	,00	Imported, cryst 112 lb kegs. lb	.4436:		44% light, bbls	.103		.12
Acetic, 28%, 400 b bbis. c/l			2,6716	Single kegs	.45 :		66% bbls Ib	***		.16
wks			2.921/6	Cleves, 250 m bbls	1.50 :		80% imported, bhls	.163		.15
28%, le/l wks100 B	- ***	•	5.35	Cresylic, 95% dark 100 gal	2.00 .	2.04	USP IX 100 lb ebysfb			.65
56%. /1 wks100 fb				dr. wksgal		.53	USP VIII 100 D cbys D		:	.55
56%, le/1 wks100 fb	***	•	5.85	95% dark, 10 dr. lots wks.gal	•••	.51	Laurent's, 250 lb bbls lb	.75	:	.80
70%, bbls, c/l wks100 b			6.71	97-99% straw, drs. wksgal	.56 :	.58			-	
70%, le/l wks100 fb	0.0.0		7.09	97-99% decolor, drs. wks. gal		.78	Metanilic, 250 lb bblslb	* * *	:	1.00
80% coml. bbls.c/l wks.100 fb		:	7.68		.76		. Mixed, sulfuric-nitric			
80% coml. lc/l wks100 fb			8.43	Formie, 75% tech. 100 h ebys. h	.16 :		Drums, wks Unit		6:	.08
80% pure bbls. c/l wks.100 lb		:	8.95	90%, 140 m chys. inclm	.18 :	.20	Drums, wks S Unit	.01	:	.013
80%, pure lc/l wks100 h		:	9.20	Gallie, USP 150 m bbls m	.70 :	.75	Tank cars, wks N Unit	.074	4:	.08
Glacial, bbls. c/l wks100 b			12.17	Gamma, 225 lb bbls, wkslb		1.85	Tank cars wks S Unit			.01
Glacial, le/l wks100 h	11.42	:	12.42	Bbls., ton lots wks To	:	1.80	Molybdie, 85% pure 1 lb bot. lb			3.00
Glacial, USP cby wks100 lb	11.93	:	12.93	Glycerophosphoric, 25% 1 b b. h	1.65 :	1.70				
Acetylsalicylic, 200 h bbls h			.80	H. 350 m bbls, single m	:	.80	85% pure, 100 h kegsh			1.65
Second Hands	.73		.75	Bbls. ton lots wks	:	.75	Monosulfonic F, Delta. 50 m			
Anthranille, ton lots drs Ib	***	:	1.10	Hydriodic, 10% USP 51b bot. 1b	.50 :		ting	***	:	2.30
95-98%, 100 h drs h		:	1.15	Hydrobromic, 48% coml. 155 m			MURIATIC, 20° cbys. lc/l			
99-100%, 100 B dra B		:	1.25	ebys. wks	:	.37	wks100 m	1.35		1.75
Benzoic, tech, 100 lb bbls lb		:	.50	48% coml. 10 chys, wks., ID	:	.35	Cbys. e/l wks100 m		:	1.50
	***	:	.45	40% CP 155 lb chys. wks. lb	.40		Tank cars, wks100 lb	1.10		
Tech. ton lots bbls	***	:		10%, USP 100 h cbys, wks. h	.15 :			1.00		1.10.
USP, 100 b bbls b	.55	:	.65	Hydrochloric, see also Acid Muris		***	18°, 140 lb ebys.			
Boric, crys. powd. 250 h bbls. h	.11		.12				e/1 wks100 fb	.85	:	1,25
Kegs, 100 lb lb	.12	:	.121/	CP 5 gal. demis	.07 :	.08	22°, 140 D cbys.			
Broenner's, 250 lb bbls lb	***	*	1.55	USP, 5 gal. demis	.07 :	.08	c/l wks100 m	1.40	:	2.00
Butyric, 60% pure 5 lb bot lb	.85	:	.90	HYDROFLUORIC, 30%400 bbls.			Iron, free, 20° cbys.			
Camphorie, USP VIII 1 lb bot. lb	5.10	:	5.25	wks	1	.06	c/l wks100 lb		:	1.25
Carbolic, USP crys. see also Pher	nol			30% bbls. c/l wks To	:	.05	Tank cars, wksnet ton	20.00		25.00
110 b tins	***	:	.20	30% 100 lb chys. wks lb	:	.06%	Muriatic, CP & USP, see Acid	Evdroch!		
50 lb tins	***	:	.21	48% single 100 m cby, was m		.11	Naphthionic, tech. 250 lb bhls. lb	.60	:	.62
5 m tins or bot	.24	:	.25	48% 10 cbys, wks D		.10	Refined, single bbls Ib			.65
1 m bot		:	.29	52% 100 m chy, wks, m		.12	Nevile & Winther's, 250 D		•	.00
LAguid, USP 11b bot 1b	***		.28	52% 10 chys. wks ID			bbls	1 18		1 44
					*** *	***	www	1.10		1.20

Silver Nitrate

Crystals, C. P.

Fused

(Lunar Caustic) U.S.P., 67%, 33¹/₃%

Cooper's Silver Salts

Chloride Cyanide Oxide Sulphuret

Established Standards

for every use

since 1857

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RELIABILITY

Amidopyrine Antipyrin **Bromides** Caffein Citrates Creosote Carbonate Glycerophosphates Guaiacol Carbonate Guaiacol Liquid Iron Cacodylate Pancreatin Pepsin Quinine Sulphate Resorcin Salicylates Sodium Cacodylate Sodium

Methylarsinate

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Crystals

Granular

Powder

CITRATES

Iron Cibrate

Iron and Ammonium Citrate
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Scales Iron Pyrophosphate Scales

Potassium Citrate
Sodium Citrate

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Special Product for Pharmaceutical Purposes

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NEW YORK

MITRIC, 36° 135 D eby.	4	Acid Sulfurie	Alcohol—(continued)
wks	5.50 : 6.15	Tank cars, wksnet ton 9.00 : 11.0	
Cbys. c/l wks100 lb	4.50 : 5.25	C. P. 175 lb cbys100 lb : 8.0 Oleum, 20 p.c. 1500 lb drums,	
38° single chy. wks100 lb	5.65 : 6.55	le/1 wks100 lb 1.25 ; 1.5	Isobutyl, crude 50 gal. drums.gal: 4.40 Refined, 10 lb canlb: .75
Cbys., c/l wks100 lb	5.00 : 5.65	Drums, c/1 wks100 m 1.20 : 1.2	
40° Single cbys. wks100 b	6.50 : 7.15	Tank Cars, wksnet ton 18.00 : 19.0	Isopropyi, crude 30 gai. drs. gai ; 2.23
Chys. c/l wks100 lb	5.25 : 6.25 7.25 : 7.90	Contract cars, wkston 17.00 : 18.0	nemen, oo gat. ursgat 3.00 ; 2.00
42° Single cbys, wks100 lb Cbys, c/l wks100 lb	7.25 : 7.90 5.50 : 7.00	Oleum, 40° drs lc/l wks.net ten : 35.0	net u, 02 70, ula
C. P. cbys. single wks 100 lb	: 13.00	Oleum, 60° drs, lc/l wks net	Methyl, see Alcohol, Wood
Oxalic, 325 lb bbls, wkslb	.151/4: .16	ton : 65.0	Phenylethyl, see Phenylethylalcohol
Bbls. NY D	.1614: .1614	Sulfurous, USP 6% 100 m chys. m .05 : .0	Propyl, nml. erd 50 gal. drms.gal : 4.40
Kegs, 100 lblb	.17 : .17%	4% 100 m cbys m .04 : .0	Refined, 10 lb can b : .75
Phenylacetic, 1 b bot D	2.50 : 3.00	USP, 5 gal. demis D .06 : .0	
Phosphoric, 50% tech. 100 h		Tannie, tech. 300 lb bbls lb .40 : .5	No. 1 Complete Dance 100 Breed
cbys	.07 : .08	USP, powd, 200 lb bbls lb .70 : .7	50 gal. bbls. inclgal33 : .35
USP, 85% syrupy, 70 lb		USP, fluffy, 50 lb bblslb .75 : .8	
demis	.14 : .19	m + 1 mm + 1000m 111 m	No. 1 Canadal Danat 100 Danas
USP. 10% dil. 100 lb cbys. lb	.07 : .08	USP, powd, 300 m bbls. m : .3	
Phthalic, 100 b bbls b	.32 : .35	Imp. USP 240 b bbls b .28 ; .2	
Picramic, 300 b bbls b	: .65	Powd. 240 lb bbls lb .281/2; .3	
Pierie, 300 lb bbls	: .40	Tobias, 250 lb bbls lb 1.50 : 1.5	FO1 111- 111 01 - 00
Bbln. car lots wks	: .20	Tungstic, 100 lb kegslb: 1.0	
Pyrogallic, crys. 5 lb cans b	; 1.20	Aconitine Alk. cryst, 1 oz, vls. oz 15.00 ; 16.00	No. C. Complete Depart, 199 Depart
		Amorphous, 1 oz. visoz 15.00 : 16.00	
Resublimed, 5 lb canslb	: 1.60	Adens Lanae, bydrous 350 lb bbls lb .18 : .20	50 gal. drums extra. gal24 : .26
Tech. powd, 200 m bblsm	: .80	Anhydrous, 350 lb bblslb .22 ; .29	
Salicylic, tech. 125 lb bbls lb	.26 : .27	ALCOHOL, USP 190 pf. 50 gal.	
USP. 100 lb bbls	: .29	bblsgal 4.70 : 4.73	ized formulae for completely dena-
Second Hands, bbls Ib	:	Second Hands, bbls. USP 190	tured alcohol, some 75 formulae for
Sulfanilie, 250 D bbls D	.22 : .23		specially denatured alcohol are au-
			thorized for special uses. Owing to
SULFURIC, 66° 175 m cbys.		Export, USP 190 pfgal .35 : .46	the limitations of their was however
le/1 wks100 fb	: 1.40	Cologne Spirit, 50 gal. bbls.gal 4.75 : 4.80	
Chys., c/l wks100 lb	: 1.25	Wood, 95% 50 gal. bblsgal .58 : .60	prices are quoted by the alcohol
. 1500 D Drums, le/l		97%, 50 gal. bblsgal .60 ; .62	producers only to holders of per-
wks100 m	: 1.10	Pure, meth. 50 gal. bblsgal .70 ; .72	mits allowing the use of spe-
	: 1.00	Acetone free, 50 gal, drums, gal .75 : .76	cially denotyped formulas in medicate
The second of th			authorized by the Dept. of Internal
Tank cars, wksnet ton 1	10.00		Revenue. For prices on specially
60° 1500 lb Drums,		Alcohols, also in 50 gal.	denatured alcohols not listed above.
le/1 wks100 lb	.70 : .90	drums, extra and returnable.	
Drums, e/l wks100 lb	.60 : .80	Amyl, see Oil Fusel	consult any of the alcohol producers.



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Snow Cap Brand 5% Tomahawk Brand 35%

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Aloin, USP 100 lb cases lb	.85	:	.87	Aluminum Sulfate- (continued)			1	Ammonium Chloride-(continued)			
Alpha-Naphthol, tech 300 lb bbls. lb			1.05	Cont. bgs. e/l wks. E.100 fb		:	1.40	Imp., wh. 600 fb casks spot. fb	.061	:	.06%
Ten lots, bbls, wks			1.00	Bags, c/l wks. W100 lb		:	1.35	Gray, 600 lb casks spot lb	.073	:	.08
Refined, 300 lb bblslb		-	1.10	Bbls., c/l wks. East. 100 fb		:	1.55	Lump, 500 lb casks spot lb		:	.16
Alpha-Naphthylamine, 350 lb bbls. lb		:	.32	Bulk, c/l cont. wks. E.100 lb		:	1.35	Ichthyolate, as to brand B	.75		3.00
		-	.30	Amidol, (see Diaminophenol)	4.00		4.25	Iodide, USP 25 lb jars lb	4.85	:	4.90
Ton lots, bbls. wks	• • •	•	.00	Amidopyrine, 10 lb boxeslb	4.00	:	4.50	Lactate, 500 m bbls	.15	:	.16
ALUM, Ammonia, lump 400 m bbla.				Aminoazobenzene, 110 lb kgslb	***		1.15	Nitrate, tech. crys. 225 m bbls. m	.05%	6:	.06
wks100 lb	***		3.50	AMMONIA anhyd. 100 m cyl m		:	.30	CP gran. 100 h kegs h		:	.22
Bbls. c/l wks100 lb		-	3.25	Water, 26° 800 lb drs, wks lb		:	.071/2	Oxalate, pure, 100 lb kegs lb		:	.40
Contract, bbls c/lwks 100 fb		:	3.25	Drs. c/1 wks	.07		.071/4	Persulfate, 112 lb cases lb		:	.50
Imported, 650 lb casks. 100 lb		:		Imp., 800 m drs incl spot. To		:	.06	Phosphate, dibasic 200 h bbls. h	.35	:	.36
Ground, 400 lb bbls. wks. 100 lb	3.40	:	3.65	26°, 100 m cbys. le/l wks. m		:	.091/4	Tech., powd. 325 b bbls b	.15	:	.17
Powd., 380 lb bbls. wks. 100 lb	3.50	:	3.75	Cbys, c/l wks		:	.0914	Salicylate, USP 100 lb kegs. lb	.53	:	.55
Chrome, 500 m eks wks. 100 m	5.00		6.00	20°, 800 m drs. le/l wks. m		:	.06	Sulfate, bulk c/l wks100 b		:	2.85
Petash, lump 400 m bbls.				Cbys., le/l wks		:	.08	200 m single bgs c/l wks.100 m			3.00
wks100 lb			4.50	18°, 800 m drs, le/l wksm			.05%	200 lb double bags f.a.s.100 lb	3.50	:	3.60
Bbls. c/l wks100 b		:	4.25	Chys., lc/l wks		:	.0736	Sulfocyanide, tech. 100 lb kgs. lb	.50	:	.52
Cont. bbls c/l wks100 lb		:	4.25	16°, 800 h drs. le/l wks. h		:	.05	OP 25 m jars		:	.55
Imp. 650 lb casks sp. 100 lb	2.75	:	3.00	Cbys., le/l wks		:	.07	Amyl Acetate, tech 50 gal drs.gal	1.75	:	2.25
Ground, 400 lb bbls. wks. 100 lb	4.35	:	4.60	Ammonium Acetate, 100 lb kegs. lb	.35	:	.36	Pure, 5 gal, cansgal	4.00	:	6.00
Powd., 380 lb bbls. wks.100 lb	4.50	:	4.75	Benzoate, USP 11b bot1b	.85		.90	Alcohol, see Oil Fusel			
Chrome, 700 lb cks wks. 100 lb	5.50	:	6.00	Biffuoride, 300 lb bbls lb	.22		.23	Butyrate, 1 lb bot	2.00	:	2.10
Soda, grd. 400 lb bbls. wks. 100 lb		:	4.00	100 m kegs	.23	-	.24	Formate, 1 m bot	1.75	:	2.00
Bbls. e/l wks100 lb		:	3.50	Bromide, 50 lb boxes lb	•••		.29	Salicylate, 100 lb cbys ID	1.25	:	1.40
Aluminum, metal, c/l NY100 m		:	17.50	Imported, 112 lb boxeslb	.15			Anethol. 2 To bot	1.75	:	2.50
Chloride, anhyd. 275 h drs lb	.20	:	.22	Carb., tech. 560 lb casks lb				ANILINE OIL, 900 m drs. 5dr.sp. m	.14	:	.1436
30% sol. 120 lb cbys lb	.03	14:	.04	Powd., tech. 385 D bbls. D				Aniline Salt, 200 h bbls h	.22	:	.24
Hydrate, light 90 lb bbls lb	.17	-		USP, lump, 100 lb kegs lb	.07			Anisic Aldehyde, 1 m bot m	4.00	:	4.25
SULFATE, Iron-free bags c/l				Powd., 100 lb kegslb	.09			Anthracene, 40-45% 600 m casks			
wks	2.25	:	2.50	Chloride, Domestic		-		wks	.12	:	.17
Contract bgs. c/l wks. 100 lb		:	2.25	White gran, 250 lb bbls wks lb			.07%	80-85%, 600 lb casks wks lb	.75	:	1.00
Imported, spot100 lb	2.10	:	2.25	Bbls., c/l wks				Anthraquinone, subl 125 B bbls. B	1.35		
Comm'l., 1/2 % iron, bgs. e/1				Gray 250 lb bbls. wkslb			.07%	30% paste 350 m bbls m	5.20		
wks East 100 lb			1.50	Bbls. c/l wks			.0734	Antimony metal, slabs ton lots100 lb Needle Powd., 100 lb caseslb	.03		

THE CLEVELAND-CLIFFS IRON CO.

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ANTIMONY CHLORIDE, anhyd 1000 D	Benzaldehyde, tech. 945 lb drs.				Bismuth-(continued)			
drs	wks		:	.65	Subnitrate, USP 250 bbls ID		:	2.15
50 lb erocks lb .45 : .50	USP. 25 m cans	1.40		1.50	Second Hands, bbls, or less. ID	1,90	:	2.00
Sol'n. 130 lb carboys b .12 : .14	FFC. 25 D cans	1.60		1.70	Cones, 1 lb bot	***		
Oxide, 500 lb bbls lb .06 14: .06 14					Subsalicylate, USP 175 bbls Ib			2,45
Sulfide, golden 500 h bblsh : .16	wksgal			.27	Tannate, 1 lb bot			2.25
336 lb kegs	110 gal. drs. wksgal	***	:	.32	Bismuth Preparations quoted	***	•	
Crimson, 500 lb bblslb : ,35	CP Tanks, wksgal			.30	above on basis 25 m lots.			
336 lb kegs	110 gal. drs. wksgal			.35	Smaller lots at an advance.			
						00.00		
	Benzidine Base, dry 250 m bbls. m		:	.87	Blanc Fixe, dry 400 lb bbls. wks.ton			
336 b keps b : .41	10 bbl. lots		:	.85	Imported, bblston			
Tartrolactate, 500 lb bblslb : .45	Benzidine Sulfate, paste 350 lb				Paste, 650 m bblston	***		40.00
Antipyrine, USP 100 m cases m 2.05 : 2.10	bbls	.70	:	.72	BLEACHING POWDER, 700 m drs.			
Apomorphine Hydchlide, 1/6 oz. vis.oz 12.00 : 12.25	Benzol, see Benzene				e/1 wks100 lb			1.75
Arecoline Hybromide, 1 oz. vlsoz 8.50 : 10.00					Contract, c/l wks100 lb			
Argols, red powd. 350 lb bblslb .07 : .08	Benzonaphthol, 5 lb boxes lb	2.50	:	2.60	F. a. v. c/1100 m			
Arsenic, metal 220 m cases m : .17	Benzoyl Chloride, 500 D drs D		:	1.00	Imported, spot100 lb		0	
Red, 224 lb kegs cases lb .121/2: .13	Benzyl Acetate, 100 m cbys m	1.15	-	1.20	Blue Ointment, see Mercury			
White, 550 m bbls lc/1 m : .081/4					Mass, see Mercury			
110 fb kegs le/l	Alcohol, 51b bet	1.10		1.25	Bone Ash, 100 b kegs		:	.10
Aspirin, see Acid Acetylsalicylic	Benzoate, 5 m bot	1.35	:		Black, 200 m bbls			.08
Atropine Alk. USP 1 es vlses : 9.00	Chloride, 95% tech. 925 lb drs. lb	.20		.22	Borax, USP cryst. 400 h bblsh	.053	4:	.06
Sulfate, 5 oz in 1 oz vialsoz 3.50 : 3.60	100 lb cbys lb		:	.25	Powdered, USP 300 b bbls b	.05	4:	.06
BARIUM BINOXIDE, see Barlum dioxide	Redistil. 100 lb cbys lb	***		.35	Kegs, USP 100-150 h h	-06		.063
Carbonate, precip, 800 lb bbls,	Formate, 1 lb bot	3.50	:	3.75	Borneol, 1 lb bot			3.50
wks	Berberine Hydchlide, 1 h bot h		2 5	22.00	Bromide, see potass. bromide, etc.		-	
Imports, bbls, spotton : 60.00	Sulfate, acid or neut. 1 lb bot. lb	21.00		23.00	Bromine, bot, in 60 lb es. wks lb	.25	:	.26
Precip., 200 h bgs, wkston 70.00 : 75.00	ETA-NAPHTHOL, 350 Ib bbls wks. Ib			.23	Bromobenzene, 600 lb drums lb	.35		.37
Chloride, 800 lb bbls. wkston : 95.00	Ton lots, wks	.22		.23	Bromoform, USP 5 fb bot 50 fb es. fb			1.45
200 lb bgs. wkston: 85.00	Beta-Naphthylamine, tech. 200 D.	100	٠		Bromstyrel, 25 lb kegs			4.50
Import, bbls. spotton 85.00 : 87.00	bbls.	.95		1.00		.20		.25
Dioxide, 780 m drs m .18 : .20	Sublimed, 200 lb bbls lb			1.50	Brucine Sulfate, 1 oz. vls. 100 ozs.oz		ä	.20
	Bichloride Mercury, see Mercury Bich			1.00	Butter of Antimony, see Antimony (morage		
				0.20	CADMIUM, metal 25 m bxs m		2	1.00
Hydrate, 500 lb bbls lb .05 : .06	BISMUTH metal, 150 b cases lb	***	:	2.20	Bromide, 50 h cases jars h	.95	:	1.00
Iodide, 51b bot	Ammon. Citrate, USP 5 lb bxs. lb			5.20	Iodide. 10 lb bot		:	4.20
Nitrate, 700 m casks m .09%: .10	Betanaphtholate, 5 lb brs lb			2.70	CAFFEINE ALK. USP 5 th cans Th	3.75		4.00
Import. casks b .07%: .08	Citrate, USP 57b boxes 1b			2.30		3.50		
Sulfocyanide 400 lb bbls lb : .35	Nitrate, 25 lb jars lb			1.50	Second Hands		:	3.60
Barytes, floated 350 m bblston 33.50 : 35.00	Oxychloride, 250 bbls			2.65	Hydrochloride, 1 b bot b			8.00
Bay Rum, Porto Rican, genuine	Phenoisulfonate, 5 lb cans lb			2.15	Sulfate, 1 b bot	***	:	5.75
Denat. salicy acid or tartar emetic	Salicylate, 250 bbls		:	1.70	Citrated, 25 lb canslb	3.00		
45 gal. bblsgal 3.17 : 3.25	Subbenzoate, 5 fb boxes fb		:	2.75	Hydrobromide 1 lb bot lb		:	5.25
Denat, quinine sulf, 45 gal,	Subcarbonate, USP 250 bbls Ib		:	2.45	CALCIUM Acetate, 150 m bgs. c/l			
bbls gal 3.50 : 3.60	X-Ray diag. 1 h bot h			2.80	wks100 fb		:	2.35
Domestic synthetic, 50 gal.	Subgallate, USP 175 bbls Ib			2.15	Arsenate, 100 lb bbls, c/l wks, lb	.09		.10
bblsgal 1.50 : 1.60	Subjedide, 5 Ib lots Ib		:	4.10	Bbls. 1/1 wks	.11		.13
water treestations and 1.00 . 1.00	Danielle, on tours			-,40	APACE 1/1 WAS			.10

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Calcium Carbide, 220 lb dr c/lwks lb Drums lc/l wkslb Carbonate, tech, 100 lb bags	:::		Carbon Bisulfide, 500 lb dr. NY lb Ton Lots, drs, NY lb Carbon Black, 10 lb bag 10 bag	.06 : .06 :	.06½ .06½	Chromium Acetate, 20° soln. 400 lb bbls lb	.10
c/l100 m bags	1.00	: 1.10	lots	.101/4:	.18	Soln. 400 lb bbls	
USP, precip. 175 lb bbls lb	2,00		Carbon Tetrachloride, 1400 D drs.	/2.		Sulfate, 400 lb bbls lb .07	: .09
Chloride, solid, 650 lb drs. c/l			NY	:	.10	Chrysarobin, USP 5 lb cans lb 1.70	: 1.90
f o b NYton		: 24.50	Drums, c/1 NY	.09 :	.0916	Cinchonidin alk., 100 oz, tinsoz .70	: .75
Gran., 350 fb drs. c/l f o b			700 m drs. single NY m	:	.10	Sulfate, 100 cz. tinscs	: .50
NYton		: 30.50	Carmine, No. 40 5 lb boxes lb	4.40 :	4.50	Cinchonine alk., 100 oz. tinsoz .38	: .43
Flake 330 D drs. c/1 drs. fob		: 30.50	Casein, edib. 100 lb keg lb	.45 :	.50	Sulfate, 100 oz. tinsos	: .25
NYton			Technical, 200 lb bbls lb	.15 :	.18	Cinnamic Alcohol, see Alcohol Cinnamic	
Imp., solid 600 m drs. spot.ton		: 20.50	Castoreum, 1 lb boxes	4.00 :	4.50		: 3.75
Anhyd., 350 lb drs. fob NY. lb		: .13	Castor Oil, USP 50 gal. bbl Ib	:	.12		: 3.50
Glycerophosphate, 25 h cansh		: 1.55	Cases, 80 lb 2 tins lb	:	.13	Citrine Ointment, see Mercury	,
Iodide, 5 lb botlb	***	: 4.20	Tech., see Fixed Oils				: 2.00
Lactate, tech. 500 lb bbls lb		: .131/2	Caustic Potash, see potash, caustic				: 10.00
Nitrate, 220 D bbls. e/l NY.ton		: 40.00	Soda, see soda, caustic				
Phosphate, precip. 350 lb bbls. lb	.10	: .12	Cerium Oxalate, USP 100 lb kgs. lb	.40 :	.42	Cobalt metal, 100 b kegs b	: 3.00
Sulfocarbolate, 100 lb kegs lb		: .48	Chalk, drop 175 m bbls	.0314:	.03 1/2	Cobalt Oxide, 500 m bbls m	: 2.00 : 2.25
Calomel, see Mercury			Precip. light 175 b bbls b Precip. heavy 560 b csks b	.03 1/4:	.04 1/2	10 lb tins 200 lb caseslb	
CAMPHOR, Amer. ref. 250 D			Charcoal, Bone, see bone black	.00 72 .	.00 76	GOCAINE alk., USP 10 oz. tins.oz 8.00 Hydrochloride, USP 25 cz.	: 10.00
bbls,		: .90	Wood, powd. 100 lb bbl lb	.04 :	.05		: 7.00
1 m cakes, 100 m cs m		: .91%	Willow, powd. 100 m bbl m	.08 :	.07	In crystals, granular, powder,	
1 oz. tab., 1 lb ctns.			Chloral Hydrate, USP 100 m drs. m	:	.75	or flaky crystals as desired.	
100 m cs		.: .95	25 lb jars		.76	Cocoa Butter, bulk 200 lb bales. lb .30	
36 oz. tab., 1 lb etns.			Chinoidin, 170 lb cases lb	.65 :	.75	Fingers, cakes, etc. 12 lb bxs. lb .35	: .36 %
100 m cs		: .96	Chlorhydrin, Ethylene anhyd, 1000 B			CODEIN alk., 5 oz. cans 10 oz	
Jap. ref. 21/2 lb slabs, 100 lb			drs	1.50 :	1.60	Hydrobromide, 10 ozsoz	: 6.10
cs lb	.83	: .85	40% soln. 100 lb ebyslb	.30 :	.35	Hydrochloride, 10 ozsoz	: 5.50
1 oz. tab. 100 m cs. 1 m			CHLORINE, Liquid 2000 b cyl.			Nitrate, 10 ozs	: 5.50
tins	.95	: 1.00	c/l wks	***	.051/2	Phosphate, 10 oz	: 4.55
1/2 oz. tab. 100 m es. 1 m			100 fb cyl lc/l wks	.06	.08	Salicylate, 10 oz	: 4.55
tins	1.00	: 1.05	Chlorobenzene, mono, 1000 lb drs.		.00	Sulfate, 10 ozoz	: 4.90
Chinese ref. 21/2 lb slabs 100 lb			wks.	.10 :	.11	Small Sizes, 1/8 oz. vials, 50c extra,	
cs	.81		Drs. c/1 wks	:	.09	14 oz. 25c. extra, singles 7c extra per oz.—25 oz. lots, 10c oz. cheaper	
Crude, 100 lb cslb	.68	: .70	Tank car lots wks	:	.08	than above.	
Camphor, Monobrom. 100 m es. m		: 1.75	CHLOROFORM, USP 50 m drs m	:	.25	COD LIVER OIL, Norwegian, 30 gal.	
Caramel, 50 gal. bblsgal	.60	: .62	Second Hands, 650 lb drs. lb	:	.24	bbls,bbl 21.00	: 25.00
Carbazol, 250 lb bbls lb	.75	: .80	Technical, 650 lb drums lb	.22 :	.2314	Newfoundland, 30 gal, bblsbbl 19.00	. 20 00



CARBON TETRACHLORIDE

Last year the use of Carbon Tetrachloride as a fumigant against wheat weevil was introduced. This material is particularly desirable as it is absolutely non-inflammable and can be used in sections where Underwriters' rules will not permit the use of Carbon Bisulphide.

Can be supplied in 5-, 10- and 55-gallon drums.

THE DOW

Midland, Mich.



CHEMICAL CO.

90 West St., New York



									_	
Colchicine alk., USP 1 oz. visos		: 25.00	Dimethylaniline, 840 m drs. wks. m	.32	:	.33	Ethyl—(continued)			
Salicylate, 1 or. vialsor		: 35.00	Drs. c/l wks	.30	:	.32	Chloride, 15 m cyl		:	.50
Collodien, USP 30 D drumsD		: .26	Dimethylsulfate, 110 h drs h		:	.50	Cinnamate, 11b bot	5.00	:	1.10
Flexible, USP 30 lb drumslb		: .29		.20	:	.25	Formate, 5 lb bot	1.00		,12
COPPER, metal electrolytic e/l	14.00		Dinitrobensene, 400 m bbls m Dinitrochlorobensene, 400 m bbls. m	.22	:	.24	Morphine, see Morphine, Ethyl	.10		
NY	14.00	: 14.121/2 : 14.121/6	Dinitrocandrocenzene, 400 m bbls. ib	.30	:	.32	Valerate, 5 lb bot	4.50	:	4.75
Casting, c/l NY100 fb	12.00	: 13.62 1/2	Dinitrophenol. 350 b bbls b	.33	:	.35	Ethylene Glycol, drs	1.00	:	1.25
Carbonate, 400 lb bbls lb		: .19	Dinitrotoluene, 300 h bbls h	.20	:	.22	Eucalyptol, 25 m cans	.80	:	.85
Cyanide, 100 m drs	.58	: .60	Dionin, see Morphine, Ethyl				Eugenol, 25 m cans	3.25	:	3.50
Oxide, 1000 b bbls b			Diphenylamine, 250 m bbls m	.58	:	.60	FERRIC CHLORIDE, tech. crys.			
Carlots, bbls Tb		: .15	Diphenyloxide, 500 lb drums lb	.85	:	.90	475 m bbl		:	.101/
Sub-Acetate, verd. 440 lb bbls. lb	.35	: .37	Dover's Powder, USP 51b tins 1b			2.20	USP, crys. 100 lb kegs lb		:	.11
SULFATE, crys. 450 m bbls. lc/l			Duboisine Sulfate, 1 oz. vlsos		: 1	60.00	Tech. Sol'n 40° 140 h cbys. h		:	.0614
spqt100 lb		:	EARTH, Diatomaceous, see Kieselguhr				48°, 140 h cbysh		:	.08
Carlots, bbls, delivered100 lb		1	Emetine, alk., 15 gr. vlsea			1.00	USP Sol'n 125 lb ebys lb	***		.06%
Powdered, 500 lb bbls. lc/l			Hydchlide, USP 1 cz. vlsos				Ferrous Chloride, crys. tech.	.06		.0634
spot			15 gr. vialsea	.75		.80	Ferrous Sulfide, 900 m bbls. 100 m			4.25
Carlots, bbls, deliv 100 m Copperas, bulk c/l wkston		:	EPSOM SALT, tech. 300 m bbls.				Flake White, see lead, white	4.00		*
400 lb bbls. c/l wkston		: 17.00 : 20.00	NY			2.00				
200 lb bgs. c/l wkston		: 18.00	Bbls. c/l NY100 b			1.85	Fluorspar, 95% 220 b bgs. ex			25.00
Corn Syrup. 42 deg. 50 gal.	•••	. 10.00	100 lb bgs, c/l NY100 lb			1.70	dockton	***		30.00
bbls100 m	2.52	: 2.77	Imp., 112 lb bgs. c/l		-		98% bgston			35.00
43 deg. 50 gal, bbls100 m		: 2.82	NY100 To	.90	:	1.00		***		
Corrosive Sublimate, see Mercury Bic	hloride		USP, 300 m bbls, 10 bbls. 100 m	2.45	:	2.60	FORMALDEHYDE, USP 400 m bbls.	00		.081/
Cotton Soluble, 100 h bbls. wet. h	.40	: .42	Imported, 300 m bbls100 m	1.75	:	1.85	Carboys, 100 lb lc/l wkslb	.08		.09
Coumarin, 25 lb tins	3.50	: 3.75	Ergotin, Boniean, 1 lb bot lb		:	10.00	Bbls, 400 lb le/l wkslb	.081		.09
Second Hands In	3.40	: 3.50	Eserine alk., 1 os. vlsoz			30.00		.00 /	3.	
CREAM TARTAR, USP 300 D			Salicylate, USP 1 oz. vlsoz			18.00	Fuller's Earth, 200 m bgs. c/l	15.00		17.00
bbls	***		Sulfate, USP VIII, 1 oz. vlsoz			14.50	Imported, 230 fb bags NYton	25.00	:	40.00
Imp. powd USP 400 m bbls. D receote Oil, 50 gal. drsgal	.221		ETHER, USP 55 to drums to			.14		33.00		20.00
Carbonate, 1 m bot. 25 m m	1.60	: .22	Anaesthesia, 55 lb drums			.17	Fusel Oil, see oil fusel			
Creceote Oil, 100 gal. drsgal	.20	: .22	USP, 1880 55 lb drumslb			.32	6. SALT, paste 350 b bbls. basis			
Cresol, USP 400 m bbls m	.13	: .16	Washed, 55 lb drumslb				100% ID			.70
Cyanamide, bulk c/l wks, Amm unit	***	: 2,25	Motor, 1 lb cans		:	.26	Gelatin, USP silver bbl. 100 m es. m	.90		1.00.
DIAMINOPHENOL, 100 m kegs Ib		: 3.75	Ether, Nitrous, 1 h bot h		:		Gold Label, 100 lb cases lb	2.25	:	3.00
Dianisidine, 100 h kegs h	4.50	: 4.60	Ethyl Benzyl Aniline, 200 m drs. m		:	1.40	Geranyl Acetate, 1 lb bot lb	5.25	:	5.50
Dichlorobenzene, 1000 m drs m	.08	: .0736	Ethyl Acetate, 99% 50 gal, drs.gal	.93		1.05	GLAUBER'S SALT, tech. 200 h bags			
Diethylaniline, 850 D drs D			85-90% Ester, 50 gal, drs.gal	.62		.67	e/1 wks100 lb		:	1.10
	.60	: .62	Pure, 5 % botgal	3.25	:	3.50	350 m bbls. c/l wks100 m		:	
Diethyl Phthalate, 25 m cans m	.85	: .90	Benzoate, 5 lb bot	1.75	:	2.00	Bbls. lc/l wks100 lb			
Diethyl Sulfate tech. 50gal.drs Ib	.40		Bromide, 115 lb drs lb		:	.40	Imported, bgs. spot100 lb	.70	:	.80
CP drums	.50	: .55	Butyrate, 5 lb bot	2.00	:	2.25	USP, 300 lb bbls. dom. sp.100 lb		:	1.75



ACETATES

ETHYL — AMYL — BUTYL

The Miner Edgar Company
Rail and Water Facilities
110 William Street
New York

0

Chemicals

GLYCERIN, C. P. 1000 b drs b	.161/4:	17	INDOL. C. P. 1 oz. bot	10.00	. 11 00	. Load (continued)			
Second Hands, drs	.15%:	.17		10.00	: 11.00	Arsenate, 100 lb bbls, lc/l wks. lb	.12		.13
	.17%:	.18	Iodides, see Potass. Iodide, etc.			Bbls. c/l wks			.1134
Dynamite, 1000 lb drs lb	.15 :	.15%	IODINE, crude, 200 lb kegs R		: 3.95	Paste, 600 lb bbls lb	.09		.10
Saponification, tanks Ib	.10 :	.1014	Resublimed, 10 lb jas In		: 4.20	Iodide, USP VIII 5 h bot h		2	2.95
Soap, Lye, tanks	.11 :	.111/4	Tincture, USP 50 gal. bblsgal	4.10	: 4.25	Nitrate, 500 m bbls, wks m		:	.22
Goa Powder, see chrysarobin			Iodoform, powd. 10 h bot h		: 5.25	Oxide, lithge, 500 lb bbls, wks. lb		:	.08
Graphite, crude 220 lb bagston 15	00 . 9	5.00	Crystals, 10 m bot		: 6.25	100 fb kegs wks			.121/
	.06 :	.09	Ionone, (violet) 1 lb bot lb		: 8.00	Oxide, red 500 lb bbls, wks lb			.09
					-	100 lb kegs wks		-	.121/
Demonstr 1 th bet m		8.00	Iridium, metal 10oz. lots		:185.00	Peroxide, 100 m drs	***		.25
		3.75	Iron, metal by hydrogen 1 lb bot. In		: .60	White, basic carb. 500 m bbls.			0.585
			IRON & AMM. CITRATE, USP 25 P.			wks			.07%
		3.50	cans		: .84	Bbls. e/l wks100 m			6.28
		5.35	Green scales, 25 lb cans lb		: .84	100 lb kegs wkslb White, sulfate 500 lb bbls, wks.lb	***		.07%
Heliotropin, 10 lb bot lb 2	2.25 :	2.50	Cacodylate, 10 lb bot lb		: 10.00	Bbls. c/l wks100 lb			6.28
Hexamethylenetetramine, USP			Citrate, USP VIII 25 lb cans lb		99	100 D kegs wks			.121/4
	.70 :	.721/4	Chloride, see ferric or ferrous						
Rubber Makers, Impalp. Pd.			Hypophosphite, 510 cans 10	1.50	: 1.60	Hydrate, 200 lb bbls100 lb	.75		1.00
drs	.721/2:	.75	Syrup, USP VIII		: .30	Sulfur, dry 200 m drs. NY m	.11	:	.12
	.67 :	.68	Iodide, 1 lb bot		: 3.80	Drs. c/1 NY	***		.10%
Homatropine Hydrobrom. USP 1 ez.			Syrup, USP 5 lb bot lb Oxalate, scales 25 lb cans lb	.65	: .67	38° Soln. 50 gal, bbls. NY.gal		:	
	: 1	5.00	& Ammon. Oxalate, 25 m bxs m	.45	: .50	Linalcol, 5 m bot	4.50	:	5.50
Hydrastine Alk., USP 5 ozs. 1/88			& Potassium Oxalate, 25 lb bxs. lb	.47	: .48	Linalyl Acetate, 1 To bot To	8.00	2	9.00
vls			& Sodium Oxalate, 25 m bxs Ib	.40	: .42		13.00		14.00
Hydchlide, USP 5 ozs. 1/6 s vls oz 17	.00 : 1	8.00	Phosphate, USP 25 lb cans lb		: .89	Litharge, see lead oxide			
	: 1	9.50	Pyrophosphate, USP 25 lb			Lithium Carb. USP 100 lb kgs lb	1.40		1.50
Hydrastinine Hydchlide, USP 15 gr.			cans		: .94	Citrate, USP 100 lb kegs lb	1.60	:	1.70
	: 6	0.00	Iso-Eugenol, 1 h both		: 4.50	Lithopone, 400 m bbls, lc/l wks. m			.0614
Hydrazobenzene, 100 m kegs m 1	.30 :	1.85	JALAP RESIN, lump 5 lb tins lb			Bbls. c/l wks		-	.08
HYDROGEN PEROXIDE, 25vol.400 TO			Powd., tins		: 3.35	Imported, bbls 1b	.05		.05%
bble m	:	.10				MAGNESITE, crudeton			15.00
	:	.06	KIESELGUHR, 90 m bags NYton	35.00	: 40.00	Calcined, 500 m bblston			55.00
areas a constant and			LANOLIN, see Adeps Lanae						1.25
Bot. 8 oz. casesgross 11	.50 :	7.75	LEAD, metal c/l NY 100 fb		: 5.90	Magnesium mtl., sticks 100 lb cs. lb	.05	:	.0534
Bot. 16 oz. casesgross 18.	.50 : 1	1.25	Acetate, white crystals 500 lb			Carb. tech. 70 lb bags NY lb	.03	:	.061/4
			bbls. wks	.103		USP. 60 lb bbls	.12		.13
Hyoscine Hydrobrom. USP 1 oz.	.80 :	.90	100 to 250 lb kgs. wks. lb	.11		USP, blocks 100 m ca. 1, 2, 4			
			White, broken, bbls. wks Ib	.10		0ZS	.18	2	.21
Tweenameter 131 Court of		7.50	White, gran., bbls. wks lb	.10%		Chloride, fused 575 lb drs. c/l	,,,,		
Allenfold Am mhoun 2		0.00	White, powd., bbls. wks Ib Kegs, wks Ib	.113		wkston			32.00 -
Underhaamide FIOD 41			Brown, broken, bbls, wkslb	.091		Flaked, 350 b drs. wkston			34.00
	: 5								

Only those responsible for the quality of the finished product appreciate material of unvarying purity.

OF SUCH PURITY IS

Perthamboi Formaldehyde

"America's Standard"

Specify the original "Perthamboi"

Perth Amboy Chemical Works, New York

Magnesium—(continued)			Mercury-(continued)			Musk Ambrette, 1 lb cans lb	12.00	:	14.00
Fluosilicate, crystal s400 m bbls.			Red Precip. USP 25 th bxs Ib	:		Ketone, 1 lb cans			10.00
wks	.15		Powder, USP 25 lb bxslb	:		Xylene, 5 lb cans	2.25	:	2.75
	.07		White Precip. USP 25 lb brs lb			NAPHTHA, Solvent, 110 gal. drs.			
Soln. bbls. e/1 wks ID		.06	Powder, USP 25 lb bxs lb			wksgal			.32
Glycerophosphate, 5 m bot m	***	3.20	With chalk, USP 25 m brsm			8000 gal. tank car wks,gal	***	:	.37
Hypophosphite, 5 m cans m		1.20	Meta-Nitro-para-Touldine, 300 m	:	.75	NAPHTHALENE, Flake, 1757 bbls.			
			bbls	2.25 :	9.98	wks	.07	16:	.08
		.40	Meta-Phenylenediamine, 300 lb	2.20	2.00	Bbls. c/l .wks			.07
				1.50 :	1.60	Bbls., second hands NY Ib	.06		.069
Perborate, 1 lb tins		2.50	Meta-Toluvienediamine, 300 D			Balls, 250 m bbls. wks m	.08		
Salicylate, 100 h kegs Ib		.62	bbls	.95 :	1.00	Bbls. c/l wks			.08
Sulfate, see Epsom Salts			Methyl Acetone, 700 h drumsgal	.50	: 55	Bbls Second Hands, NY Ib	.07		
			Anthranilate, 1 lb bot lb	4.00 :	4.50	Nerolin, 1 b tins	2.00	:	2.50
Manganese Chloride, 600 B esk.	.0936	.10%	Chloride, 90 lb cyllb	:		Nickel Metal, electrolytic 100 D			11
			Cinnamate, 1 lb bot	5.00 :	5.75	kegs			
	***		Paracresol, 1 h both	8.00 :		Shot. 100 lb kegs			
	• • •	.19	Salicylate, USP 50 lb caseslb	*** :	.41	Salt, single 400 lb bbls. NY. lb	-08		
Dioxide, 80-84% 900 m bbls.			500 lb drums	.37	.40	Double, 400 m bbls. NY. m	.08		
NY			Second Hands, cases		2.00	Oxide, 100 lb kegs NY lb	.40	:	
85-90%, 900 m bbls. NY.ton 85		90.00	USP, medicinal 5 lb cans lb		3.50	Nitre Cake, bulk wkston		:	6.00
	.32		Michler's Ketons, 225 m bbls mb		: 3.00	500 lb bblston	***	:	7.50
	***		Milk, powd. 150 h bbls h	.14 :		Nitrobenzene, crude 1000 lb drs.			
	• • • •		Milk Sugar, see sugar of milk			wks	.09		
		.30	Mineral Oil, see oil mineral			Redistilled, 1000 lb drs. wks. lb	.10	:	.11
	.10		Monochlorobenzene, see chlorobenzene	*		Nitronaphthalene, 550 lb bbls lb	.20	:	.22
			Monoethylaniline, 900 lb drs lb	1.00 :	1.05	Nitrotoluene, mixed 1000 lb drs.			
		6.75	MORPHINE Sulfate, USP 5 os. tins			wks	.14		.18
			10 0%08	:		OIL MINERAL, wh. 50 gal. bbls.gal	.75		
MERCURY, metal 75 m flask . flask 57		58.00 1.00	Acetate, 5 oz. tins 10 oz. lots.oz	:	4.90		.10		1.20
	.90		Hydrobromide, 5 oz tins 10 oz.		4.00	Oil Mirbane, see nitrobensene			
			Hydehlide, 5 oz. tins 10 oz.	:	4.90	Opium, see crude drugs Orange Mineral, 800 m casks NY. m			108
			lots	:	4 00	500 b bbls. NY			.135
			Diacetyl Alk., 1/2 on. vis. 10	*** *	4.50	Ortho-Aminophenol, 50 lb kegs lb			2.60
			05	:	8.40	Ortho-Anisidine, 100 lb drs lb			2.10
Blue Ointment, USP 25 m cans			Hydchlide, 1/2 os. vls. 10 os.os	:		Ortho-Dichlorobensene, 1000 b drs.	2.00	•	2.20
50%	:	.72	Ethyl Hydchlide, 1/4 oz. vis. 10			wks	.15	2	.17
	:	.56	OEOS	:	8.95	Ortho-Nitrochlorobenzene, 1200 h			
33 1/3% Mercury Ib	:	.59	Small Sizes: 1/4 oz. vials, 50c			drs. wks	.32	:	.35
Citrine Ointment, 25 m jars. m	:	.48	34s 25c extra; single os. vis.,			Ortho-Nitrophenal, 350 m bbls m	.75	:	.77
			tra, over price for 5 cm, tins, 5			Ortho-Nitrotoluene, 1000 lb drs.			
	:		lots in 5 oz. tins, 10e oz. lower	than		wks	.16	:	.18
Yellow, USP VIII 25 m jars. m	:	3.31	above schedule.			Oxgall, USP 5 lb bot	* * * *		1.50

1816



1922

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Magnesium Chloride

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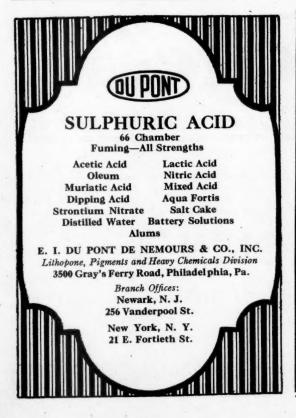
Carteret, N. J.

South Charleston, W. Va.

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Chemicals

PALLADIUM, metal 10 oz. lots on	51.00	: 53.00	PETROLATUM, green 300 D bbls. D	.02%:	.03	Platinum, metal soft 10 oz. lotsoz		: 1	93.00
Pancreatin. USP 5 D bot D		: 1.60	Dark Amber, 300 m bbls m	.04 :	.0436	Podophyllin, 5 lb bot	3.85		
			Light Amber, 300 b bbls b	04%:	.05		0.00		
Papain, 1 b bot	2.25	: 3.50	Cream White, USP 300 m bbls. m	.07 :	.071/	POTASH, CAUSTIC, solid 88-92% 700 D drs. wksD	.09		.10
Paraffin, ref'd. 200 lb cs. slabs			Lily White, USP 300 lb bbls. lb	.09 :	.0914		.09		.08
120-125 Deg. M. P	.03 1/			.121/2:	.13	Drs. e/l wks			
125-130 Deg. M. P	.04					Imp., 88-92% 700 D drs. NY. D	.055	6:	.06
130-135 Deg. M. P	.04		Onen market 950 h dry	.16 :	.17	USP, by alcohol 5 h cans h		:	.45
135-140 Deg. M. P	.05	: .06%	475 lb drs lb	:		USP, purified 10 lb cans 120 lb			
Para-Aminoacetanilid, 100 lb			Natural 950 lb drs. wks lb			cases	.32	:	.34
kegs	1.25	: 1.35	475 lb drs. wks	:	.16	POTASSIUM Acetate, USP 100 h			
Para-Aminophenol, 100 lb kegs, lb	1.25	: 1.35	Government Surplus, 950 lb drs.			kegs	.32	:	.35
Hydrochloride, 100 lb kegs lb	1.85	: 1.45	ex store	:		Bicarbonate, crys. 220 m bbls. m	.08	:	.10
Para-Anisidine, 100 lb kgs lb	3.00	: 3.25	Drs. c/l ex-store	:	* * * *				
Technical, kegs		: 1.75	475 lb drums, ex-storelb	:	.17	Bichromate, crys. 900 lb casks wks. lb	.094	. 34	.10
Para-Dichlorobenzene. 270 lb bbls.	2.00		Phenolphthalein, USP 100 m drs. m	1.40 :		Powd., 900 lb casks wkslb	.13		.13
wks	.17	: .20	5 lb cans, 100 lb lots lb	1.50 :	1.60				
Paraldehyde, 100gal drs lb	.35	: .40	Phenylacetaldehyde, 1 D bot D	7.50 :	9.00	Binoxolate, 300 lb bbls lb	.34	:	.38
Paraformaldehyde, USP 100 m cs. m	.40	: .45	Phenylacetic Acid, 1 b bot b	2.50 :	8.00	Bisulfate, C.P. 5 lb cans lb			.30
Para Nitroacetanilid, 300 lb			Phenyl-Alpha-Naphthylamine 100 B	2.00	0.00	100 m kegs		:	.=
bbls Ib	.55	: .60	kegs			BROMIDE, USP cryst. 450 B			
PARA-NITROANILINE, 300 D bbls.				:		bbls		:	.22
wks lb	.77		Phenylethylalcohol, 1 lb bot lb	4.00 :		Granular, 300 m bbls m		:	.32
Ten lots, bbls, wks	.75	: .76	Phosgene, cylinders wks	.60 :	.65	Cases, 100 lb		:	.26
Para-Nitrochlorobenzene, 1200 lb drs.			Phosphorus Oxychloride, 175 lb cyl. lb	.30 :	.35	Imported, USP 220 lb cs lb	.13	2	.14
With antho Majuldina 2007	.25	: .27	Phosphorus, red 110 h cs. wks. h	:	.50	Cases, 112 h	.14	:	.15
Para-Nitro-ortho-Toluidine, 300 lb bbls lb	9 75	: 2.85	Imported, 112 h casesh	.25 :		CARBONATE, 30-85% calc.			
Para-Nitrophenol, 185 m bblsm		: .77				800 D cks D	.049	K .	.05
Para-Nitrosodimethylaniline. 120 lb	.10		Phosphorus Sesquisulfide, 105 lb cs.		.4236	80-85%, hydrated, 800 D.	,		
bbls		:		4 :		cks ID	.063	4:	.06
Para-Nitrotoluene, 350 m bbls m		75	Phosphorus, yellow 110 lb cs. wks. lb	.25 :	.35	90-95% casks	.053	4:	.06
Para-oxy-Benzaldehyde, 100 lb			Imported, 112 h casesh	:	.28	96-98% casks	.07		.07
kegs	1.50	: 1.60	Phosphorus Trichloride, 175 b cyl			USP, 100 lb kegslb	.09	:	.10
Para-Phenetidin, 500 lb drs lb	1.35	: 1.40	wks,	.30 :	.35	Chlorate, crys. 112 b kgs. NY. b	.08	:	.10
Para-Phenylenediamine, 350 h			Phthalic Anhydride, 175 m bbls. m	.35 :	.87	Imp. 112 b kegs NY b	.063	4:	.07
bbls 10	1.50	: 1.60	Pilocarpine Hydchlide, USP 1 os.			Powd., 112 h kegs NYh	.08	:	.10
Para-Toluene-Sulfonamide, 175 lb			vls	7.00 :	7.25	Imp. kegs NY	.06		.06
bbls Ib	.40	: .42	Nitrate, 1 oz. vls. 25 ozoz	7.00 :	7.25	Pyrotechnic, fine powd. NY Ib	.07	:	.07
Para-Toluene-Sulfonchloride, 410 lb			Alkaloid, 15 gr. vlsea	:		USP, fine crys. 110 lb kegs			
bbls. wks	.11		Piperazine Hydrate, 1 h both		16.00	NY	.08	:	.09
Para-Teluidine, 350 lb bbls. wks. lb	1.00		Pitch, Coal-Tar wkston		33.00	Citrate, USP 10 m cans D		:	.65
Paris Green, basis, 500 lb kegs lb	.18	: .20	Plaster Paris, tech. 230 lb bbls.bbl		4.40	Glycerophosphate, 75% Soln. 5 lb			
Paris White, see whiting, French Pensin, USP 5 lb bot	0 50	: 2,75	True Dental, bblsbbl		4.50	cans		:	1.65
repain, USF UID DOL	2.00	. 2.10						_	



THE Juden BRAND

PHTHALIC ANHYDRIDE Pure Needle Crystals

MADE BY AIR OXIDATION PROCESS

HIGHEST DEGREE OF PURITY

NO VARIATION IN QUALITY

The Selden Co.

PITTSBURGH, PENN., U. S. A.

Specifications on Request

Potassium-(continued)			Quinine-(continued) Safrol, 60 lb cans lb	,55	:	.60
Guaiacol Sulfonate, 5 h cans,			Dihybromide			
10 10	1.50 :	1.75	Dicarbonate, 10ez tinsoz : 2.50 Salicin, USP, 1 D cartons, 25 lb . lb	3.75	:	4.00
Hypophosphite, 10 m cans h	:	.85	Ethyl Carbonace, 100z tinsoz : 1.10 Salol, USP, 100 lb drums lb			.80
Iodide, USP, 100 m cases m	3.30 :	3.35	Formamentale of \$8			
Second Hands, cases ID	3.20 :	3.25	Formate			
Lactophosphate, 4os botoz Metabisulfite, 300 lb bblslb	.15	.23	Glycerophosphateoz 88 Salt Cake, glassmakers' bulk, c/1			
Muriate, 80%, 200 lb bags, NY	.10 :	.20	Hydriodideoz	0.00	: :	21.00
K ₀ 0 unit	.6214:	.65	Hydrobromide, USP 08 : .62 SALTPETRE, gran., 500 lb bbls			
	.0279.	.00	Hydrochloride, USP0z: .62 wks	.073	4:	.08%
Nitrate, see Saltpetre			Hydrochlorsulfate			.06%
Oxalate, neutral, 100 lb kegs. lb	:	.36	Hydchlide & Urea, USPos : .88 Imported, 500 lb bbls lb	.063	4 .	.063
Perchlorate, 112 b kegs b	.12 :	.14	1 Hypophosphite		-	
Permangan, USP crys, 112 fb drs. fb USP small cry, 112 fb drms: fb	.141/2:	.151/2	Lactate			70.00
Prussiate, red, 350 m bbls m	.14 :	.14 1/2	Phenolsulfonate	18.50	-	71.50
500 To casks	***	.88	Phosphate		:	1.55
Prussiate, yellow, 500 lb casks, lb	.33 :	.35	Salicylate, USP	.60	:	.65
Salicylate, 25 m cans	.00 :	.75	Tannate, USP			*
Sulfate, 200 h bags, NY. K.O unit	:	1.00	W-1			
USP, VIII, 100 m kegs m	.18 :	.20	Seidlitz Mixture, 225 m obisio			.17
Sulfocyanide, CP 25 lb jars lb	:	.75	Small Sizes: loz vials or cans, SILVER, metal, Americanos			.999
Tartrate, neutral, 25 lb cans lb		.60	50oz. lots, 5e oz extra; 5oz cans, Foreign		:	.70
Titanium Oxalate, 200 lb bbls.			50oz lets 3e oz extra; 25oz cans 50oz lets, 2e oz extra; single 1oz Colloidal, 16oz betoz			1.60
freight allowed	:	.35	vials or cans, 5c extra. All minor Nitrate, USP, 2000z bot03	.473	6:	.48
Pumice Stone, lump, 250 h bbls, h	.04		quinine salts sold and quoted basis Nucleinate 160z bot	.40		.45
Powdered, 350 m bbls		.06	100oz lots in 100oz caus. Sulfate Proteinate, 16oz botoz	.42	:	.45
Pyridine, 50gal drumsgal	.021/2:	.03 1/2	and bisulfate sold basis 1000s Soap, Castile, 40 lb bxs	.20	:	.25
QUICKSILVER, see Mercury	1.50 :	1.75	lots in 100oz cans. Smaller orders Powd. USP, 250 m bbls m		:	.30
			or containers extra as above Green, USP, 150 lb kegslb	.08		.081
Quinidine Alk, 100oz tinsoz	.70 :	75	schedule. Prices on soda alkalies are			actus
Sulfate, 100oz tinsoz	.50 :	:52	R. SALT, 250 Ib bbls wks Ib .50 : .52 percentages and not N. Y. & L.			
QUININE SULFATE, USP,		**	Red Lead, see lead oxide			
American, 100oz tinsoz 1os, tins, 100oz lotsoz	:	.50		1.80		2 10
Dutch, 100oz tins02		.57	Resorcin, see resorcinol.	1.00	•	4.10
Java, 100oz tinsoz			Resorcinol tech. 100 ib kegs ib 1.30 : 1.35			1.20
Japanese, 100oz tinsoz	:	.50	USP, 25 lb cans lb 1.75 : 1.90 Prompt and spot, Basis 48 % bags			2120
	:			1.25		1.30
QUININE ALK., USP, 100oz tinsox	*** :	.67	Ton 1°CP 000 h bbls 17 . 19	2.20		2100
Arsenate	:	.88	Rosewater, triple, 5gal demisgal 1.50 ; 1.60 Soda Ash, 58% dense, bags resale	1 00		9.00
Benzoate02	:	.88	At hat	1.90	•	2.00
Bisulfate, USP0z	:	.50	SAGCHARIN, USP, 1 lb cans, 25 lb Contract, Basis 48 % bags c/1 wks			1 98
Citrate02	:	.62			*	1.25
Dibrdchlide. USPoz	:	.66		1.30		1 25
Diagoculture, Col02	*** *	.00	occount name, 1 to caus, 20 to 1.00 . 1.00 f c/1 wks	1.00		1.00



Aconitine and Salts
Amidopyrine
Antipyrine
Apomorphine Hydrochloride
Arecoline Hydrobromide
Atropine and Salts
Berberine and Salts
Berberine and Salts
Coffeine and Salts
Codeine and Salts
Codeine and Salts
Codeine and Salts
Colchicine Alkaloid, U.S.P.
Colchicine Salicylate
Crossote, U. S. P.
Crossote Carbonate
Cumarin
Diacetylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
Eserine and Salts

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Crystals - U.S.P. - Powder

Guaiacol Carbonate
Homatropine and Salts
Hydrastine and Salts
Hydrastine and Salts
Hydrastine Hydrochloride
Hyoscine Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Morphine and Salts
Phenolphthalein
Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
Salicin
Saponin Purified
Scarlet Red Medicinal
Genuine "Biebrich"
Silver Proteinate
Sodium Cacodylate
Sparteine Sulphate
Stryphanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Veratrine and Salts

THE HOFFMANN-LAROCHE CHEMICAL WORKS WORKS

SODA, CAUSTIC, 76% solid, resale,	2.00	0.00	Sodium—(continued)	10.00	. 15 00	Sodium—(continued)		
NY flat100 ID	3.60 :	3.65	Chioride, tech 200 b bags.ton			Phosphate, di-sodium, tech 550 lb		
Contract basis 60% c/1 wks			C. P. 300 lb bbls	.05	: .06	bbls	.031/2:	
100 m	:	2.50	Citrate, USP, IX, 100 h kegs. h		: .73	USP, gran. 275 bbislb	.07 :	
Pmpt and spot, Basis 60%			USP, VIII, 100 lb kegslb		: .60	USP, recrys 275 bblslb	.13 :	.14
e/1 wks100 lb	2.571/2:	2.60	Cyanide, 96-98%, 100 b cases			Mono-sodium 100 lb kegslb	.25 :	.27
,	2.01/2.	2.00	NY	.24	: .25	Tri-sodium tech 550 lb bbls lb	.05 .:	.05 1/4
Contract 60% low grade c/1			Ton lots, NY		23	Picramate, 100 h keps lb	.55 :	.57
wks flat100 lb	:	2.65	73-76%, 100 m cases, NY m	.22	: .23	Para-Toluene Sulfonate, 175 lb		
Ground & flake, 76% pmpt and			Imp. 128%, 200 lb cases lb		.22	hbis	.08 :	.09
spot, wks c/1 drs100 lb	:	3.72 1/2	120%, cases		: .20	PRUSSIATE, yellow, 450 h cks h	.21 :	.23
Contract, 76% drums, c/1 wks			Fluoride, 350 fb bbls, NY fb	.091/4		Pyrophosphate, 100 h kegsh	:	.14
flat	:	3.65	Glycerophos, USP, crys 25 lb	.00 %	10	Salicylate, 100 lb kegs lb	:	.36
USP, stick, 5 lb cans lb	.16 :	.18		1 70	. 1 77	Second Hands, USP, kegs Ib	.34 :	.36
			Caliston VCD 50 P. obus B.		: 1.75	Silicate, 60° drs wks100 lb	3.00 :	3.50
Pure, stick, by alcohol To	.28 :	.30	Solution, USP, 50 lb cbys lb		: 1.20	40°, 150 fb cbys wks700 fb	1.50 :	1.75
SODIUM ACETATE, crys 450 lb bbls			Hydrosulfite, 500 lb casks, NY. lb	.30	: .32	600 lb drs wks 100 lb	.95 :	1.20
wks	.06 :	.07	Hydroxide, see Soda Caustic			Silicofluoride, 450 fb bbls NY. fb	.08 :	.081/2
Ton lots, bbls wks lb	.05 1/2 :	.06 1/2	Hypophosphite, USP, 25th cans			Sulphate, see Glauber's Salt.		
Aluminum Sulfate, see alum soda.			Ib		75	Sulfide, 60% solid, 650 lb drs		
						wks	.04 :	.04 1/4
Benzoate, USP, 250 lb bblslb	.50 :	.60	HYPOSULFITE, crys., 375 lb bbls	0.00		Drs. c/1 wks	:	.031/4
Bicarbonate, 450 lb bbls. 100 lb	:	2.10	wks100 lb		3.25	Imp. 700 lb drs NY lb	.031/4:	.03 1/2
Bbbls c/1	:	1.80	Bbls c/1 wks100 lb	***	: 3.10	60 co broken, 650 lb drs wks lb	.05 :	.051/4
112 m kegs100 m	:	2.25	100 fb kegs wks100 fb		: 3.50	Imp, 500 lb drs NY lb	.031/2:	.03 %
Bichromate. 600 fb casks wks Ib	.07 :	.0734	Granulated, bbls wks100 lb		: 3.85	30% crys, 400 lb bbls wks. lb	.021/4:	.03
Casks, c/l wks	.06%:	.07	Bbls c/1 wks100 fb		3.70	Sulfite, crys, 400 lb bbls wks. lb	031/2:	.03%
Bisulfite, dry powder, 500 lb			Kegs wks100 lb	3.95	: 4.10	Dessicated, 400 h bblsh	.091/2:	.10
bbls, wks	.04 :	.04 %	Iodide, USP, 25 lb jars lb	3.80	: 3.85	Sulfocarbolate, USP, 100 lb		
Solution, 32-40°, 500 lb bbls			Metanilate, 150 m bbls m	.80	: .82	kegs	.25 :	.30
wks	1.35 2	2.00	Naphthionate, 300 lb bbls lb	.60	: .62	Sulfocyanide, 400 m bbls m	.45 :	.47
Bromide, USP, Cryst 500 lb bbls		-	Nitrate, crime, 95%, 200 lb bgs			Tungstate, crys 100 lb kegs lb	:	.55
Biomide, Cist, Ciyse Soots Bills	:	.19	e/1 NY100 m	2.55	: 2.60	Dessicated, kegs	:	.65
Cases, 100 lb	:	.20	Futures, NY100 tb	2.25	2.35	Solvent Naptha, see Naphtha.		
Imp. USP, 112 m es m	.15 :	.16	Double Refined, 400 lb bbls			Spartein Sulfate, USP, 16oz botoz	.60 :	.70
Cacodylate, USP, 57b bot,	110 :	.10	wks	.04 1/2	.04%	Starch, rice, 140 lb bags lb	.06 :	.08
		4.00	Nitrite, 500 b bbls wks b					
Carbonate, sal soda, 350 lb bbls	• • • •	4.60	Bbls spot, makers Ib	• • • •	.09	STRONTIUM Bromide, USP, 100 B		.29
		1.00	Imp, 650 lb casks lb	.081/2		kegsIb		.07
wks	1.75 :	1.90		.08 /2	: .09	Carb. 600 m bbls. wks m		.08
Ton lots, wks100 lb	:	1.65	Ortho-Chloro-para-Toluene Sul-	.25	.27	100 fb kegs wks	:	3.50
USP monohyd, 100 tb keg. Ib	:	.15	fonate, 175 b bbls wks. b			Indide, USP. 25 lb jarslb	.11	.1114
Pure photographic, 100 lb		00	Oxalate, neutral, 100 fb kegs. fb	.28		Nitrate, 600 m bbls. wksm	.09%:	.10
keg	:	.20	Perborate, 275 lb bblslb	***	.25	imp, bbls NY lb		
Chlorate, 112 lb kegs, wkslb	:	.06%	Imp, 225 lb drslb	.19	.20	100 lb kegs wkslb	.111/2:	.12
Imported, 112th kegstb	.05%:	.06	Peroxide, 200 lb cases lb	.25	.27	Salicylate, USP, 100 lb kegs lb	:	.60



N = ===							
STRYCHNINE Alkaloid, USP, crys			Sulfuryl Chloride, 600 lb drs lb		WHITE LEAD, see lead, white.		
100os tins		: 1.05	TALC, Italian, 220 b bags NY ton		White Precipitate, see mercury.		
Alk, powd, USPoz		: .95	French, 220 m bgs NY:ton		Whiting, 200 lb bags, c/1 wks.ton	3	
Acetate		: .95	Dom, crude, 100 lb bags NY ton		Bags, 1/c1 wkston		23.00
Glycerophosphate, USPoz		: .95	Refined, 100 lb bags NYton	20.00 : 30.00	French, bags, NYton	:	14.00
Hydrobromideoz		: .95	Tartar Emetic, tech, 300 h bbls. h	.29 : .291/4	English, bags, NYton	:	23.00
Hydrochloride08		: .95	USP, 300 lb bbls	.36 : .37	Witch Hazel Extract, 50gal bbls gal	1.20 :	1.25
Hypophosphiteoz		: 1.05	Terpin Hydrate, USP, 100 lb kegs lb	.63 : .65			
Nitrate, USPoz		: .95	Terpineol, CP 1000 th drums Ib	.50 : .60	XYLENE, 2° dist range, nitration		.45
Phosphateoz		: .95	Cans. 50 m	.55 : .60	tks wksgal	***	
Sulfate, USP, crys powdoz		: .76	Imported, cans, 25 lb lb	.70 : .75	110gal drs wksgal	:	.50
Baccharinate		: 2.05	Terpenyl Acetate, 25 D cans D	1.65 : 1.75	5° dist range, 8000gal tanks		
Strychnine preparations quo			Terra Alba, 300 m bbls	.02 : .02%	wksgal	:	.40
100os lots in 100os tins. Sr			Theobromine Alk, 5 fb cans fb	5.50 : 6.00	110gal drs wksgal	:	
			Thiocarbanilid, 170 m bbls m	.35 : .37	Xylidine, 900 lb drs	.43 :	.43
%oz vials, 50c extra; %oz			Thymol, USP, 10 m cans m	4.25 : 4.50	YARA YARA, 1 D tips, D	2.00 :	2.50
extra; single ounce vials, To			Iodide, 5 lb boxes	7.75 : 8.00	Yohimbin Hydchlide, los vlsoz	9.00 :	9.25
Sugar Milk, USP, 200 lb bblslb	***	: .19			ZINC, METAL, high grade, slabs	0.00	
Second Hands, USP, bbls Ib	.20	: ,21			c/1 NY100 To	:	7.00
Sulfonal, see Sulfonmethane.			American standard, NY 100 h	31.75 : 32.00	Common, Slabs, c/l NY. 100 lb	:	6.50
Sulfonmethane, USP, 5 lb bxs lb		: 4.50	99% American, NY100 lb	: 31.25	Mossy, 25 lb bxs NY lb	:	.28
Bulfonethylmethane USP, bxs.5 lb lb		: 5.50	C.P. mossy, 25 lb bxs NY. lb	: .91	Ammonium Chloride, soln, 400 h		
		: 18.00	Bichloride, 50% soln 100 lb				
SULFUR, crude, bulk, c/1 NY.ton			bbls wks	.10%: .10%	bbls	14	1.0
Brimstone, 250 lb bgs, c/l 100 lb	***	: 1.75	Crystals, 500 lb bbls wks lb	: .29	Carb. tech, 150 lb kegs NY lb	.14 :	
Less c/1 bags NY100 lb	1.85	: 2.10	100 lb kegs wks.,	: .291/2	USP, 100 lb kegs		.37
Roll, 500 lb bbls c/1 NY.100 lb		: 2.15	Oxide, 400 lb bbls wks lb	: .38	Chloride, fused, 600 lb drs wks lb	.05%:	.06
Less c/1 bags NY100 lb	2.35	: 2.60	100 lb kegs wks	: .39	Drs. c/1 wks	:	.0514
Flour, Heavy, 290 lb bbls, 100 lb	2.50	: 3.05	Tetrachloride, 1000 D drs wks D	.2134: .22	Imp, drs NY ib	.05 :	.051/
Light, 100 %, 280 lb bbls, 100 lb	2.60	: 3.15	Tolidine, 350 m bbls	1.15 : 1.20	Granulated, 500 lb bbls wks. lb	.06 :	.06 1/
Rubbermakers 100%, 240 lb			Sulfate, 350 m bbls	: 1.00	Imported, drs NY Ib	.05 :	.05 1/4
bbls NY100 lb	2.50	: 3,15	Toluene, 8000gal tank cars, wks gal	: .30	USP. 25 m jars	:	.35
Commercial, 99%, 150 bgs			110gal drs wksgal	: .35	Cyanide, 100 lb drs lb	.42 :	.43
NY	1.35	: 1.65	Toluidine, Mixed, 900 lb drs wks lb	.30 : .32	Dust, 100 m tins NY m	:	.083
For Dusting, 99%, 100 h			Tribromphenol, 100 m cases m	0.0	500 m bbls, 1c/1 wksm	:	.0734
bgs NY	2.00	: 2.50		; .85	Bbls c/1 delivered To	:	.0734
Flowers, 100%, 240 lb bbls		. 2.00	Trional, see Sulfonethylmethane.	. 47	Iodide, 5 m bottsm	:	4.50
	3.00	: 3.55	Triphenyl Phosphate, 450 m bbls. m	: .45		:	
			Tripoli, 500 m bbls100 m	: 3.00	Nitrate, 25 m jars	.071/4:	.08
Precipitated, 125 m bbls NY. m	.18	: .19	Tungsten Ore, bulk, Wolframite,		Oxide, Amer. 300 lb bbls, wks lb		
Lac, 125 m bbls NY	.10	: .11	NY	3.00 : 3.25	Bbls c/l wks	003/	
Sulfur Chloride, red, 700 lb drs			Bulk, Scheelite, NY WO unit	:	French, 300 m bbls wks m	.09%:	
wks		: .05%	UREA, pharm 112 lb cases lb	: .40	Bbl c/l wks	.08%:	.11
150 fb cbys wks		: .08	VANILLIN, USP, 400os cans,oz		USP, 100 lb bbls	.15 :	
Yellow, 700 h cbys wks h		: .05	Cans, 16028		Stearate, USP, 60 m bbls m	.20 :	.25
150 m cbys wks		: .05%	Second Hands, cans03	.43 : .45	Sulfate, 400 lb bbls wks lb	.03 :	.03 14
Sulfur Dioxide, 100 m cyl m	.08	: .08%	Veratrine Sulfate, loz vials 05	: 2.50	Bbbls c/1 wks	:	.02%
Bulfuric Ether, see Ether.			Hydrochloride, 1oz vialsoz	: 2.50	USP, 100 m kegs m	.08 :	.10

NITRATE SODA

.

DOUBLE REFINED CRYSTALS GRANULATED OR POWDERED



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Manufacturers

of

PHOSPHATE OF SODA TRI SODIUM PHOSPHATE

EPSOM SALTS

Technical

U. S. P.

Ammonium Phosphate Baking Powder Chemicals

ACIDS-

Oxalic— (99.5% Pure) Formic-

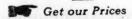
(99.5% Pure) (All strengths)

Phosphoric

Oils and Fertilizers

Oils			LINSEED, raw c/l bblsgal Ten bbls., rawgal Boiled, 5 bbl. lotsgal		.88 .91 .92	SOYA BEAN, crude tks. Coast. Ib Crude, bulk c.i.f. NY in bond. Ib Crude, bbls. NY	.10 :	.101/4
Castor, No. 1 400 lb bblslb 80 lb caseslb No. 3, bblslb	: .:	13 14 12½	Double boiled 5 bbl. lotsgal Raw, 8000 gal. tanksgal Imported, bbls. NYgal Imp. shipment, duty paid bbls.gal	.82 .83 .82	.93 .84 .85 .83	Refined, bbls. NY	.13	.13 1/2 .11 1.35 1.31
China Wood, 3751b bbls B Coast, 8000 gal. tks D Orient to N. Y. bbls B	.12 : .:	13 121/9 12%	Imp. tks. NYgal Menhaden, crude bbls. wksgal Crude, tanks wksgal	.40 :	.78 .42 .40	STEARIC ACID, s. p. 200 lb bags. lb Double pressed, bgs lb Triple pressed, bgs lb		.09 .0914 .101/2
Coconut Ceylon, 375 lb bbls. NY. lb 8000 gal. tanks NY lb Cochin, 375 lb bbls. NY lb Tanks, NY lb Manila, tanks Coast lb Rátble, bbls. NY lb	.07½: .09¼: .08½:	08% 07% 09% 08% 07%	Light strained, bbls. NYgal Yellow bleached, bbls. NYgal Extra bleached, winter NYgal Blown, bbls. NYgal Neatsfoot, 20° c.t. bbls. NY	.18	.60 .62 .65 .70 .20 .14%	Stearine, oleo. bbls. D Lard, bbls. D Lard, bbls. D Tallow, edible 50 lb tierces. D City extra, loose. D Tallow 011, acidiess this NY D Bbls. c./1 NY D D D C./1 NY D D D D D D D D D	.14%:	.10 .14% .08% .06% .09%
Cod. Newfoundland 50 gal. bbls.gal Tanks, NY. .gal Copns, bags c i f NY. .b Corn, ref. 375 bbls. NY. .b Crude, tanks mills. .b .b	.56 : . .53 : . .04%: .	58 55 04% 12% 08%	Pure, bbls. NY	:	.14%	Teaseed, crude bbls. NY Ib Walnut, crude bbls. NY Ib Whale, nat. winter bbls. NY gal Blchd. winter bbls. NY gal Crude, No. 1, tanks Coast Ib	.12	.12¼ .10¼ .70 .75
Bbls. mills ID Bbls. NY ID COTTONSEED, crude tks. mills. ID	.101/2: .	10 10% 08	OLIVE, denatured bbls. NYgal Edible, bbls. NYgal Foots, bbls. NY	1.12 1.80 .08 .08¼:	1.15 2.10 .081/2 .081/3	Crude, No. 2, tanks Coastlb	.05%:	.06
P. S. Y. 100 bbl. lots NY Ib White, 100 bbl. lots NY Ib Winter yellow, 100 bbls. NY Ib	.09%:	10 12 12¼	Palm Lagos, 1500 lb caskslb Niger, caskslb Bonny old Calabar, caskslb	.07	.071/4	Fertilizer Mate	erials	3
Degras, Amer. 50 gal. bbls. NY. Ib	.04 : .03 % : .07 % : .05 ½ :	04 1/4 04 08 1/2 08 08 08 .08	Palm Kernel, 1500 lb casks NY. lb Peanut, refined bbls. NY. lb Crude, mills buyers' tks. lb Crude, bbls. NY. lb Crude, Coast, sellers tks. lb	.08%: .12½: .08½:	.09 .13 .08% .12 .08%	Ammon. Sulf. bulk wks 100 m Double bgs. f.a.s. NY 100 m Blood, dried f.o.b. NYunit Bone. 3 & 50 ground rawton Raw, Chicagoton		30.00 25.00
House	.051/4: .041/4: .42:	.05% .05 .43 .06¼	Perilla, bbls. NY	.131/2:	.14 .13 2.50	Cyanamide wksunit Fish Scrap, dried wksunit NITRATE SODA100 B Phosphate Bock, f.o.b. mines,	4.10 &	2.75 .10 2.60
Lard, city steam bbls	.11 :	.11 1/4	Rapeseed, refined bbls. NYgal Blown, bbls. NYgal Red Oil. distilled bbls	.82	.83 .95	Florida pebble, 68-78%ton Tennessee, 70-75%ton Phosphate Acid, 16% wkston	3.00 4.00 8.00	
LARD 01L, prime tech, bbls. ID Edible prime, bbls. ID Off prime, bbls. Ib No. 1, bbls. Ib No. 1, bbls. ID Extra, No. 1 bbls. ID No. 2, bbls. ID	.10%	.11 1/4 .14 5/8 .11 .10 .10 1/4	Saponified, bbls	:	.081/2	Potassium Muriate, 80% unit Sulfate unit Steamed Bone Meal, NY ton Tankage, ground NY unit High grade, f.o.b, Chicago unit	.621/2	1.00 30.00

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	Naval Stor	es	
	(Carleads ex-yard N.	Y.)	
Spirits Turner	ntine, bblsgal	:	1.12
Wood Turpenti	ine, stm distd. bbls.gal	:	1.00
Destructive	distilled, bbls gal.	:	.90
Pitch, prime	bbl	:	6.00
	in 600 m bbls., gross f	or net.	
quotations	based on a unit of 280	D)	
B	280 m	:	5.85
		:	6.15
E		:	6.15
	280 Tb	:	6.25
G		:	6.25
		:	6.25
		:	6.30
		:	6.30
M		:	6.45
N		:	6.75
WG	280 lb	:	7.35
WW		:	8.00
Rodn Oil, firs	t run 50 gal. bbls.gal.	:	.39
	, bblsgal.	:	.42
Was killnahor	nt	:	10.00
Betert			10.50

Woods

Barwood,	chips		D	.043	6:	.05
Camwood,	chips		D	.09	:	,13
Divi Divi.	pods	100-200 D	bags.ton	32.00	:	34.00
Postic. #	tieks .		ton	35.00	:	37.00
Chips		*******	D	.04	:	.06
Hamlock.	bark		ton	16.00	:	18.00
Hypernic.	chins	******	D	.063	6:	.01
LOCWOOD	. stick	S	ton		:	30.00
Chins	150 m	bags	TD	.023	6:	.03
Mangross	bark.	African	ton		:	35.00
Bark.	South	American.	ton	25.00	:	30.00

Myrabolans, 150 m bags J1ton		: 28.00
B1ton		: 24.00
R2ton		: 17.00
Nutgalls, see Crude Drugs,		
Oak bark, wholeton	20.00	: 23.00
Groundton		: 25.00
Quercitron bark, roughton		: 10.00
Groundton	20.00	: 25.00
Sumae, Sicily, 160 m bags,ton	55.00	: 58.00
Virginia, 150 h bagston		: 35.00
Valonia Cups. 28-33% tanton	31.00	: 35.00
Beard, 40% tan, 150 h bgs.ton		: 50.00
Wattle bark, 150 m bagston		: 40.00

Extracts

Range of prices includes quality range for large quantity.		
Annatto, fine	.26 :	.29
Archil, double 600 D bbls D		
Triple, 600 m bbls	.17 :	.19
Cone., 600 m bbls		.20
Chestnut, clarified, 25% tks, wks, ton	.0134:	.01%
Powd., 60% 100 bls. wks. fb	.05%:	
Decolorized, bbls. wks 15		
Cudbear, English	.21 :	
Cutch, Rangoon, 100 lb bales lb	.13 :	.16
Liquid, 450 fb bbls	.10 :	.11
Tablets, 120 lb boxes	.13 :	.14
Flavine	.90 :	.95
Fustic, solid 50 lb boxes lb	.14 :	
Crystals, 100 lb boxes lb	.22 :	
Liquid, 51°, 600 m bblsm	.10 :	.14
Gal extract ID	.16 :	.18
Gambier, 25% lig. 450 lb bbls lb	.0614:	.07
Common, 200 lb cases lb	.05%:	.05%
Singapore cubes, 150 m bags h	.07 :	
NEMATINE, Paste, 500 m bbls 1b	.11%:	.131/
Crystals, 400 m bbls	.16 :	
Hemlock, 25% 600 to bbls, wks, fb		
Hypernic, 51°, 600 m bbls m		.20
Indigo, Madras bbls	.85 :	.90
Manila, bbls Ib	:	1.30

Larch, 25%, 600 m bbls., wksm Powd. 100 m bags, wksm	.031/2:	.03%
Logwood, 51°, 450 m bbls m		
Solid, 50 lb boxeslb	.15 :	
Madder, Dutch	.28 :	.30
Mangrove, 55% 400 b bblsb Myrabolans, 25% liquid bblsb	.0614:	.06%
Myrabolans, 25% liquid bbls To	.05 :	.0536
50% solid 50 h hores Th	0614 -	.06%
0ak, tanks wks	.041/2:	.04%
23-25% liq. 600 lb bbls. wks. lb	.05 :	.05%
Osage Orange, 42° liquid lb	.07 :	.08
Powd. 100 lb s bags		
Persian Berries	.27 :	
QUEBRACHO, 35% liquid tks Ib	.03 1/2 :	.03%
450 lb bbls lb 35% bleaching, 450 lb bbls. lb	041/ .	
Solid 65% 100 B balesB	0414	.04%
		ARTI
Quereitron 510 450 h bble th	.05 :	
Powdered, 100 lb boxes lb Spruce, 25% liquid tanks wks lb	09 :	.13
Spruce, 25% liquid tanks wks To	.01 :	.0134
Powd, 50% 100 lb bags wks. lb	.02 :	.0214
Powd. 50% 100 lb bags wks. lb Sumac, liquid 450 lb bbls lb	.02 :	.09
DYERS' SUNDRIES		
Albumen, technical, egg 200 lb cs. lb	.45	.65
Blood, domestic, 100 h drs h	.45 :	
British Gum, 140 m bags c/l 100 m	:	3.39
Bags lc/l	:	3.67
Dextrin, corn 140 fb bags c/1.100 fb	:	3.09
Bags lc/l100 m Potato 140 m bags c/l100 m	:	3.37
Bags 1c/1100 lb	.0934	.03
Prussian blue	.0974:	.09%
Sago Flour, 150 lb bags lb	0914	028/
Spray Yolk 150 lb es	35	.62 .03 %
STARCH, powd, 140 m bgs.c/1100 m	.35	2 47
Bags le/l100 lb	:	2.75
Pearl, 140 h bars c/1100 h	2.37	9.65
Potato, domestic, 140 h bags. h Imported, bags duty paid. h Taploca Flour, high grade bags. h	.05%:	.0534
Imported, bags duty paid. Ib	.06%:	.07%
Taploca Flour, high grade bags. Ib	.05 :	.05%
Medium grade, bags	0286 •	0.4
LOW grade, Dags	.03 :	.0316
Turkey Red Oil, bbls	.09 :	.11
Yolk Oil, bbls	:	.35

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Crude Dru	gs	Bamboo Brier Root, bagsID Barberry Bark, tree balesID Bayberry Bark, balesID	.08 : .21 : .10 :	.08 .22 .12	Cantharides, Russian, cases Ib Powdered, boxes Ib Caraway Seed, African bags Ib	3.60 :	4.25
Aconite Leaves, bales ID Aconite Root, USP bags ID Agar Agar, 1, 200 ID bales ID No. 2, bales ID No. 3, bales ID	: .25 .22 : .25 : 1.28 1.00 : 1.05 .90 : 1.00	Wax, bbls	.19 1/2: .11 : .11 : .35 : .24 1/2 :	.13 .13 .36 .26	Dutch, 100 lb bagslb Cardamom, bleached caseslb Decorticated, caseslb Green, grinding, bagslb Carnauba Wax, Flor. bagslb	.19½: .55 .50½: .35	.20 1.10 .511/4 .37
Agaric, white, cases	1.35 : 1.50 .25 : .30 .30 : .35 .28 : .30	Crude, bags	.22 : 1.40 : .17 : .15 :	.24 1.60 .75 .18	No. 1 N Country bags	.40 : .23 : .17 : .16 : .32 : .11 :	.43 .25 .18 .17 .33
Aletris Root, bags	.40 : .45 .10 : .12 : .60 .071/4 : .08	Boneset Herb, bales	.09 : .22 : .15 :	.10 .25 .23 .16	Cascarilla Bark, quilis bales B Siftings, bbls B Cassia Buds, 66 B cases B China select. mats cases B	.30 : .20 : .11 :	.35 .25 .11 1/4
Curacao, 100 lb caseslb Socotrine, whole 100 lb cslb Althea Root, cut caseslb Whole bagslb Ambergris, black boxeslb	.06 : .963/4 .38 : .40 .13 : .14 .08 : .10	Blood Root, bags	.14 : .24 : .10 :	.15 .26 .12	Saigon, assort bales	.24 .08½: .03	.26 .09 .0316 4.00
Grey, boxes	1.50 : 1.60 .15 : .16 .14 : .15	bales	1.05 1.10 .071/2:	1.10	Catechu Gum, bags	.10 .20 .081/2:	.10 .15 .20 % .09
Anise, Levant bags Ib Star, cases Ib Spanish, bags Ib Annato Seed, bags ID	.17 : .17½ .16 : .17 .19 : .19½ .03 : .03½	Burdeck Root, bags	.10 :	.05	CHAMOMILE FLOWERS, Roman bales	.75 : .28 :	.80 .32
ARABIC GUM, 200 m casesm Seconds, 250 m bagsm b Sorts, amber, 200 m bags, bls. m Fowd., USP 300 m bagsm Areca Nuts, 150 m bagsm	.25 : .27 .20 : .22 .16 : .17 .20 : .22 .10 : .12	Calamus Root, bleached cases Ib Unbleached, bags Ib Calendula Petals, imp. bales Ib Calisaya Bark, bales Ib	.10 :	.45 .11 .50 .14	Wood, powd bbls	.04 : .07 : .08 :	.04 1/2 .08 .08 1/2
Powd., 200 lb bbls lb Arnica Flowers, bales lb Root, bags lb Arrowroot, Amer. powd. bbls lb	.12 : .14 .081/2 : .09 .25 : .26 .05 : .06	Camphor, see Chemicals Canary Seed, Morocco bags	.05%:	.06 .04½ .35	Chiretta, bales	.45 : .12 :	.20 .55 .14
St. Vincent, powd. bbls	.07½: .08 .40 : .42 .60 : .62 .45 : .50 .14 : .15	Cannabis, true imp. bags Ib American (no assay) bales Ib USP, bales Ib Cantharides, Chinese cases Ib Powd., boxes Ib	1.00	.20 .30 1.10 1.30	Civet, Abyssin hornsoz Clover Tops, bags	2.75	2.85 .10 .31

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Dyelene Napthol Green B
Dyelene Cloth Scarlet G
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Dyelene Fast Acid Yellow G
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Dyelene Ponceau 3 R B
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Cochineal, USP boxes	.40 :	.50	Dogwood Bark, Jamaica bags Ib	.10 :	: .11	Grindelia Robusta Herb, bales ID	.09	: .09%
Coca Leaves, Huanuco bags Ib Truxillo, bags Ib	:	.50	Flowers, bales	.09	.10	Guaiac Gum, 200 m casesm Guarana, tins, cases	.70	: .75 : .85
Cohosh Root, Black bags lb	.08 :	.081/4	Dragons Blood, mass cases Ib Reeds, boxes	.60 :		Gum, see Arabic Gum, etc.		
Blue, bags	.09 :	.091/4	ECHINACEA ROOT, bags TO	.32	.33	HELLEBORE ROOT, Black, pwd, bbls		: .20
Colchicum Root, bags	.12 :	.13	Elecampane Root, bags Ib Elder Flowers, bales Ib	.09	.10	White, bags		.12
Colombo Root, whole bags Ib	.03 :	.04	Elemi Gum, 89 lb caseslb	.10	.12	Helonias Root, (unicorn false)	110	
Colocynth, apples cases bbls b Pulp. USP bales b	.20 : .20 :	.22	Elm, select 5 lb bundles cases lb Grinding, bags lb	.28 :	.30	bags	.03%	
Coltsfoot Leaves, bags	.07 :	.0736	Powdered, bbls	.13 :	.1316	Chilian, bags		:
Comfrey Root, bags	.20 :	.21	ERGOT, Russian	:		Henbane Leaves, bales	.60	: .63
Condurango Bark, bales	.07 :	.08	Spanish, 150-200 lb bagslb Eucalyptus Leaves, baleslb	1.00 : .05 :	.051/2	Henna Leaves, bales	.18	: .19
Consider Balsam Para 80 lb cases lb	.15 :	.16	Euphorbia Pilulifera Herb, bags, fb	.14	.05 79	Hops, N. Y. prime bales	.23	.25
S. Amer. 80 lb cases	.25 :	.30	Euphorbium Gum, cases		.35	Pacific Coast prime bales ID	.23	25
Corn Silk, bales	.05 :	.05%	Powdered, boxes	:	.55	Horehound Herb, bales 1b	.07%	
Coriander Seed, Bombay bags Ib	:	.00/3	Fennel Seed, French bags 10	.11%:	.12	Horsetail Rush, bags	.14	: .15
Morocco, bags	.061/9:	.07	German, bags	.16 :	.17	INDIA GUM, see Karaya		
Bleached, bags	.09 :	.091/	Flax Seed, whole 180 b bblsea		12.50	Insect Flowers, open whole bales. In		.42
Cotton Root Bark, bales Ib	.13 :	.14	Ground, 180 lb bbls	.06%:		Closed whole, bales	.52	: .53
Cramp Bark, so-called bales Ib	.08 :	.09	Fir Balsam, Canada cansgal		11.00	Flowers and stems, 50 p. c.		
True, bags	.40 :	.42	Oregon, bbls. cansgal			200 m bbls m	.33	: .35
Cranesbill Root, bags	.12 :	.121/2	Fish Berries, 100-125 b bags b	.04 :	.04 1/2	Ipecae Root Cartagena bags ID	1.60	1.65
CUBEB BERRIES, 130 lb bags. lb	.90 : .95 :	1.00	Fringe Tree Bark, bags	.20 :	.21	Powdered, 200 m bbls, boxes. m		1.90
Powdered, boxes	.95 :	1.00	GALANGAL ROOT, bags	.07 :	.08	Rio Whole, bags		: 1.65
Cumin Seed, Levant bags ID	:		Galbanum Gum, cans	1.05 :	.061/2	Powdered, 200 lb bbls, boxes. lb Isinglass, American, 130 lb cs lb		1.90
Morocco, bags	.26 :	.27	Gamboge Gum, 160 b casesb	1.20 :	1.25	Russian, (Beluga) bxs etnsD		10.00
Culvers Root, bags	.15 :	.16	Gelsemium Root, bags	.11 :		JABORANDI LEAVES, bales To	.30	.31
Cuttlefish Bone, Trieste, straps D	*** :	.20	Gentian Root, bags	.081/2:		Jalap Root, whole 150 b bags ib	.18	.20
Jewelers, large, straps Ib	.45 :	.50	Ginger, African, bags	.0914:	.0914	Powdered, USP 250 m bbls m	.23	.25
		.20	Jamaica, grinding, bags bbls fb	.34 :	.40	Japan Wax, 224 lb cases lb	.16	
French, straps	:	.14	Japan, bags	.09 :	.093/4	Job's Tears, white bags fb	.05	
Damar Gum, bales	.30 :	.32	Cochin, ABC & lemon, bags Ib	.11 :		Juniper Berries, 125 b bags b	.03 1/2	
Damiana Leaves, bales	.09 :	.10	Ginseng Root, cultivated, bagsb Northwestern Wild, bagsb		10.00	KAMALA, boxes	.15	3.25
Dandelion Root, imp. bags Ib	.07 :	.08	Southern Wild, bags Ib	8.00 :		Kava Kava Root, bags	.15	.17
Deer Tongue Leaves, bales Ib	.07%:	.08	Golden Seal Root, bags Ib	:	3.50	Kino Gum, black cases Ib		.50
Digitalis Leaves, bales	.061/2:	.07	Powdered, boxes	3.60 :	3.75	Kola Nuts, 150 m bags m	.04	.05
Dill Seed, bags	.06 :	.0614	Grains of Paradise, bags ID	.12 :	.13	Kousso Flowers, bags		2.50

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LADY SLIPPER ROOT, bags To	.60 :	.65	Musk, pods Cabardine tinsoz.	16.00 : 17.00	Patchouli Leaves, bales	.25 :	.28
			Tonquin02		Pepper, black Sing, bags To	.091/3:	.09%
Larkspur Seed, bags	.22 :	.23	Grain Cab		White, bags	1314:	.13%
Laurel Leaves, bales	.04%:	.06	Tonquin		Peppers, red Mombasa bags Ib	.32 :	.33
Lavender Flowers, bales ID	:		Synthetic, see Chemicals.		Cherries, bags	.17 :	.1756
Leeches, tubsPer 100	7.00 :	8.00	Musk Root, Russian bags Ib	:	Bombay, bags	.15 :	.15%
Lemon Peel, bags	.08%:	.09			Japan, bags	.40 :	.42
Licorice Root, Russian cut D			Mustard Seed, Bari brown bags Th	.07%: .07%	Pennyroyal Herb, bales Ib	.08 :	.14
	:	***	Bombay, brown	.07%: .08	Peppermint Leaves, imp. bales Ib	.16 :	.18
Spanish, natural bales Ib	.06 :	.061/2	California, brown		Peru Balsam, 120 h kegs lb	1.75 :	1.85
Selected, 2 & 10 m bundles. m	.20 :	.23	Yellow	.03%: .04%	Pichi Leaves, bags	:	.12
Powdered, bbls	.08%:	.0934	Chinese, yellow	.0814: .0814	Pimento, select bags	.04 1/4:	.04%
Life Everlasting Herbs, bales Ib	.05 :	.08	English, yellow	.0814: .09	Pink Root, true bags	.70 :	.75
Lime Juice, clarified bblsgal	.50 :	.60	Dutch, yellow	.081/4: .081/4	Pitch, Burgundy, see Burgundy Pitch	1	
Linden Flowers, with leaves, bales fb	:	.20			Pleurisy Root, bags	.22 :	.23
Without Leaves, bales Ib	:	.30	Myrrh Gum, select 200 b csb	.50 : .55	Plantain Leaves, bales	:	.15
Liverwort Leaves, bales ID	:	.25	Sorts, cases	.45 : .48	Poke Berries, bags	:	.16
Lobelia Herb, bales	.10%:	.11	NUTGALLS, Chinese bags ID	.16 : .17	Poke Root, bags	.07 :	.0714
Lobelia Seed, bags	:	.70	Aleppy, bags	.13 : .14	Pomegranate Bark, of root bags. In	.16 :	.17
Lovage Root, bags	.30 :	.35	Nutmegs, 110s cases	.20 : .21	Of Fruit, bags	.16 :	.17
Lupulin, boxes	1.25 :	1.30	75s 80s cases	.241/2: .25	Poppy Flowers, red bags Ib	.40 :	.50
Lycopodium, 88 lb cs	.75 :	.80	Nux Vomica Buttons, bags Ib	.07 : .08		.20 :	.21
			Powdered, 200 lb bbls lb	.101/2: .11	Poppy Seed, Dutch bags	.20 :	.21
MACE, Slauw, No. 1, cases ID	.44 ;	.45	OAK BARK, red bags	.05 : .06	German, bags	.06 :	.08
Banda, No. 1 cases	.47 :	.47%	White, bags	.05 : .06	Turkish, bags	.08 :	.0816
Batavia, cases	.43 1/2:	.44	Olibanum Gum, sift 280 m cases. m	.09%: .10%	White Indian, bags	.07 :	.0736
Malva Flowers, blue bales To	:	.35	Tears, 280 lb cases	.13 : .20			
Black, bales	:		Opium, gum USP cases ID		Prickly Ash Bark Southern, bags Ib	.14 :	.1414
Manna, large flake cases ID	.85 :	.90	Granular, cans	: 7.00	Northern, bags	.14 :	.1416
Small flake, cases	.52 :	.55	Powdered, USP cans	: 7.00	Prickly Ash Berries, bags Ib	.11 :	.12
Sorts, cases	.45 :	.46	Orange Flowers, cases	: 1.00	Prince's Pine, bales	.14 :	.15
Mandrake Root, bags ID	.11 :	.12			Pulsatilla Herb, bags	:	.40
Mastic Gum, 120 lb cases lb	.45 :	.48	Orange Peel, bitter bags Ib	.05%: .06	Pumpkin Seed, bags	.14 :	.15
Mezereon Bark, bags	.10 :		Sweet, bags	.05 : .05%	QUASSIA CHIPS, bags	.08 :	.083
Matico Leaves, bales 10		.11	Orris Root Florentine bold bags Ib	.07 : .08	Queen of the Meadow Herb, bags. To	.06 :	.0636
The state of the s	:		Verona, bags	.05 : .06	Quince Seed, bags	1.20 :	1.25
Marjoram Leaves, German bales Ib	.22 :	.23	Powdered, 200 m bbls m	.08 : .09	RAPE SEED, South Amer. bags To	.06 :	.0614
French, bales	.131/4:	.16	Fingers, cases	.75 : .80	Dutch, bags	.07%:	.08
Millet Seed, dom. yellow bags Ib	.03 :	.04	Ozokerite Wax, brown hard bags. Ib	.22 : .24	Japanese, small, bags	.06%:	.07
Montan, Wax, crude bags In	.041/2:	.05	Green, hard bags	.25 : .26	Raspberries, dried boxes Ib	.35 :	.40
Bleached	:		Refined, yellow bags	:	Rhatany Root, bags	.10 :	.11
Moss, Iceland bales	.07 :	.08	PAPRIKA, bags	.16 : .24	RHUBARB, H. D. cases	.55 :	.60
Irish, bleached bales Ib	.07 :	.09	Pareira Brava Root, bags Ib	.23 : .25	Powdered, 200 b bbls b	.60 :	.65
						.03 :	.04

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Rosemary Flowers, cases bales Ib	.28 : .30	Snake Root, Canada natural bags. Ib	: .30	Tragancanth Gum, No. 1, ribbon,		
Rose Petals, pale red bags D	.25 : .65	Stripped, bags	: .45	No. 2 to No. 6, cases ID	1.75 :	1.80
		SOAP BARK, whole, 150-200 lb	.061/4: .07	Powdered, 50 lb boxeslb		1.50
ABADILLA SEED, bags D	.10 : .12	Cut, 125-175 b bags b	.0814: .09	Turkish, cases	.75 :	.90
Valencia, 170 cans	1.40 : 1.50	Crushed, 200 lb bbls	.081/2: .09	Turmeric Root, Madras bags Ib	.05%:	.064
Sage, Dalmatian bales	.05%: .06%	Powdered, 200 m bbls	.12 : .13	Aleppy, bags	.051/2:	.06
Greek, bales	.03 : .03 1/2	Spearmint Leaves, American bales. Ib	.23 : .24	China, bags		.06
Spanish, bales	.03 : .04	Spermaceti, blocks cakes cases Ib	.36 : .37	Turpentine, Venice, true 80 lb cs. lb	.34 :	.36
andalwood, chips bags	: .35	Spikenard Root, bags	.17 : .18	Spirits, see Naval Stores	.09 :	.10
Ground, bags	: .40	Spruce Gum, boxes	1.00 : 1.50	UNICORN ROOT, false, see Helonia		
andarac Gum, 300 lb bbls lb	.25 : .28	Squaw Vine, bales	.14 : .15	True, see Aletris		
arsaparilla, Honduras bales Th	.47 : .48	Squill Boot, white bags	.04 : .0436	Uva Ursi Leaves, bales Ib	.05%:	.06
Mexican, bales	.36 : .37	Stavesacre Seed, bass	: .35	VALERIAN ROOT, Belgian bags. ID	.13 :	.14
lamafras Bark, ordinary bales Ib	.10 : .14	Stillingia Root, bags	.09 : .0914	Vanilla Beans Mer. whole cases. Ib		2.00
Select, bales	.18 : .20	Stone Boot, bags	.09 : .10	Cuts. cases		7.25
avory Leaves, bales	.10 : .10%	Storax, liquid artif	.75 : .80	Bourbon, cases		3.75
cammony Resin, boxes	1.00 : 1.10	Gen. USP	1.10 : 1.20	South American, cases Ib		7.25
leammony Root, bags ID	.04 : .05	St. Ignatius Beans, bags Ib	: .22	Tahiti, yellow label cases Ib Green Label, cases Ib		$\frac{2.25}{2.25}$
enega Root, bags	.80 : .82	St. John's Bread, bags	.03 : .06	Violet Flowers, bags	2.00 : .	.70
ENNA, Alex. 150 m cases m	.32 : .35	Stramonium Leaves, bales, D	.0814: .09	WAHOO BARK, of root bags ID	.52 :	.53
Half Leaf, 350 D bales. D	.14 : .15	Stramonium Seed, bags	.13 : .14	Of Tree, bags	.25 :	.26
Siftings, 400 m bales m	.09 : .09%	Strophanthus Seed, Hispidus Ib		White Pine Bark, rossed, bags Ib	.06 :	.07
Powdered, 200 fb bbls 1b	.12 : .13	Kombe, bags	: .35	White Poplar Bark, bags Ib	.04 :	.05
Tinnevelly, job. 350 m bales. m	.10 : .12	Sunflower Seed, domestic bags In	.0636: .07	Wild Cherry Bark, thin green		
Grinding, 350 lb baleslb Pods, 350 lb baleslb	.05 : .08	South American, bags Ib	.051/2: .06	Rossed, bales Ib	.10 :	.12
Powdered, 200 lb bbls lb	.061/4: .07	TAGALDER BARK, bags ID	.05 : .05%	Thick Rossed, bales	.061/2:	.073
erpentaria Root, bags	.85 : .90	Tamarinds, bbls.	.03 : .031/4	Thick Natural, bales ID	.0434:	.05
hellac, DC cases	.95 : 1.00	Kegsper keg	2.75 : 3.00	Willow, bark bags	:	.06
Fine Orange, cases	.85 : .88	Tansy Leaves, bales	.18 : .20	White, bags	:	.15
Second Orange, cases	.83 : .84	Tar. Barbadoes, 50 gal. bbls. gal. Thus Gum. bbls	1.60 : 1.75 4.50 : 6.00	Witch Hazel Bark, bags Ib	:	.08
T.N., bags	.72 : .74	Thyme, Spanish bales	.0714: .08	Witch Hazel Leaves, bales ID	.08 :	.09
Ground reg., cases	.87 : .90	French, bales	.091/4: .10	Worm Seed, American bags ID	.10 :	.11
Regular Bleached, cases Ib Bone Dry, cases Ib	.90 : .92	Tillia .See Linden		Levant, bags		2.50
ilderitis Herb, cut bags	.95 : .98	Tolu Balsam, 90 lb cases lb	.70 : .75	Wormwood Herb, imported bales. Ib	.10 :	.12
ilmaruba Bark, bales	.12 : .18	Tonga Bark, bags	.30 : .31 1.75 : 1.80	YELLOW DOCK ROOT, bags ID Yellow Parilla Root, bags ID		.12
kullcap Leaves, bales	: .30	Para, cases	.80 ; .90	Yerba Santa, bags	.10 :	.11
Sloe Berries, bags	.10 : .12	Surinam, cases	.85 : 1.00	Zedoary Root, bags	.0514:	.06

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			Croton, USP 25 h tins h	1.00	: 1.10	Pinus Sylvestris, 25 lb tins lb		: 1.75
Almond, Bitter USP 5 th bots th		5.25	Cubebs, USP 5 m bot	6.00	: 6.25	Pumilio, USP 25 h tins h		: 3.00
Bitter ff PA 5th bots th		5.50	Cumin, 1 lb bot	6.00	: 6.25	Rose, Fr., 8, 16 & 32 on page.on		: 10.00
Artificial. (See Benzaldehyde-			Dill, 1 b bot		: 5.00	Bulg., 8, 16 & 32 oz pkge.oz	6.50	: 7.50
Sweet, 56 lb cans	.47	: .55	Erigeron, 20 lb tins	1.75	: 1.90	Artificial, 1 b bot02	2.00	: 3.00
Peach Kernel, 55 m tins m	.25	27	EUCALYPTUS, Austl. USP			Rosemary, USP 271/2D tins Ib	.50	: .55
Apricot, see Peach Kernel			56 m esm	.35	: .37	Tech. 2736 ID tins ID	.45	: .50
Amber, crude 25 lb tins	.90	: 1.00	Fennel, USP 25 lb tins lb	1.50	: 1.60	Rue. 1 D bot	4.25	: 4.50
Rectified, 25 h tinsh	1.10	: 1.15	Geranium, Algerian 25 lb tins lb	10.25	: 10.50	Sandalwood, E Ind USP 40 lb cases lb	6.85	: 7.00
Angelica Root, 1 h bot h	38.00	: 39.00	Bourbon, 25 fb tins	6.00	: 6.25	W. Indian, (Amyris) 25 m tins. m	4.00	: 4.10
Seed, 1 lb bot	***	: 40.00	Turkish, 28 lb tins		: 5.00	Sassafras, USP 50 lb cans lb		: .85
ANISE, Tech., 66 lb case lb	.55	.69	Ginger, 17b bot	5.25	: 5.50	Artificial, 50 lb cans	.43	: .45
USP 50 lb tins	.60	: .65	Gingergrass, 28 lb tinslb	2.75	: 3.00	Savin. 5 lb tinslb		4.00
Bay, 25 m ting		2.75	Hemlock, 50 fb cans	2.10	: 1.00	Spearmint, USP 60 lb caseslb	3.00	: 3.15
Bergamot, USP 25 lb coppers lb	3.60	3.75	Juniper Berries, USP 25 lb tins. lb	1.20	: 1.25	Spruce, 50 m tins		: 1.00
Artificial, 25 lb cans	2.50	2.75	Wood, 50 lb tins	.55	: .60	Tansy, Amer., 20 h tinsh		: 12.00
Birch Tar, rect. 5 lb bot lb	2.25	2.75	Lavender, USP, 28 lb tins lb	3.00	: 4.00	Tar. 50 gal. bblsgal.	.2434	
Crude, 50 lb tins	1.00	: 1.75	Spike, Spanish 50 lb canslb	.80	: .85	Refined, USP 25 lb tins lb		:
Hois de Rose, 25 m tins To	3.00	: 3.50				Thyme, red, USP 25 lb tins lb	1.00	: 1.10
Cajuput, native 50 m tins lb	.70	.75	LEMON, Ital. USP 25 m cop m	.65	: .80	White, USP 25 lb timslb	1.15	: 1.25
Cade, USP 25 m tins	.50	: .60	American, USP, 25 D tins To	***	: .70			
USP, 5 lb bot	.70	.80	Lemongrass, native, 50 lb cans lb	.95	: 1.00	Crude, 110 m drums	.95	: 6.00
Calamus, 5 lb bot	4.25	4.75	Limes, express 25 to tins To	2.75	: 2.80	Vetivert, Bourbon 1 lb bot lb	5.00	: 28.00
Camphor, 1000 lb drums lb	.11%		Distilled 25 lb tins	.50	: .55	Java, 11b bot	25.00	
Japanese, white, 72 lb cases. lb	.19	.20	Linaloe, Mex. 80 m cases m	2.40	: 2.50	Wine, heavy 1 b bot		: 2.75
Chinese, white 1000 lb drums. lb	.17	.18	Mace, distilled 50 lb tins lb	.95	: 1.05	WINTERGREEN,	0.05	. 0 80
Cananga, Native 25 lb tins lb	2.75	3.00	Mirbane, ref., see Nitrobenzene-Che	micals		Sweet bch, 25 lb tins lb	2.25	: 2.50
Rectified, 25 lb tins	3.50	4.00	Mustard, USP, 1 D bot D		: 17.00	Gaultheria, true 25 lb tins lb	5.00	: 6.00
Caraway, USP rect. 25 lb tinslb	3.75	4.00	Artif., USP, 5 b bot	3.00	: 3.10	Synthetic, USP 50 lb caseslb	.37	: .41
Crude, 50 lb tins	3.25	3.50	Neroli, Bigarade 1/2 and 1 lb bot. oz	5.00	: 6.50	Wormseed, Balt., USP 25th tins. Ib	2,40	: 2.50
Cardamon, USP 1 m bot m	13.00	14.00	Petale, 1 b bot	7.00	: 15.00	Wormwood, dom., 25 h tins h		: 12.00
Carvol, 5 lb bot	4.50	5.00	Artificial, 1 m bot		: 25.00		9.00	: 10.00
CASSIA, 75-80 p c 66 lb cases. lb	:				: 1.05	Manila, 1 lb bot		: 35.00
Redistilled, USP 50 lb canslb	1.85	1.90	Nutmeg, USP 25 lb tinslb	.95		Artificial, 1 m bot	10.00	: 12.00
Cedar Leaf, 50 lb tins	.90	1.00	Orange, bitter 25 lb tins lb	1.90		OLEORESIN	S	
Cedar Wood, light 1000 lb drums. lb	.26		Sweet, W Ind., 25 h tinsh	2.50	: 2.60 : 2.90	Aspidium, USP 1 D bot D	2.75	: 3.00
Celery, 1 lb bot	9.00	: 10.00	Italian, 25 lb coplb	2.80		Capsicum, U.S.P 5 lb bot lb		2.75
Cinnamon, Ceylon 1 lb bot lb	12.00	17.00	American, 25 lb tins lb	3.10	: 3.25	Cubeb, USP 1 bot b	6.40	: 6.50
Leaf, 5 lb bot	1		Origanum, 50 D cans	.25		Ginger. 5 lb botlb	2.60	: 2.75
CITRONELLA, 50 m tins m	.75	.80	Parsley, 1 b bot	5.00	: 5.50 : 15.00	Maletern, See Aspidium	2.00	. 2.10
Ceylon, 1000 lb drums lb	:		Patchouli, 5 lb bot	9.00		Mullein (so-called) 1 m bot m		: 1.50
Java, 400 lb drums	.75	.80	Pennyroyal, dom 25 lb tins lb	1.75	: 2.00	Orris. 17b bot		: 18.00
50 m tins	:	.85	Imported, 25 m tins	1.40	: 1.50	Pepper, black, USP 1 bot b		: 5.00
Cloves, USP 50 h cansh	2.00 :	2.10	PEPPERMINT, nat. 60 m cases Ib	3.25	: 3.50	Vanilla, 1 lb bot	9.00	: 9.50
6 m bot	2.10 :	2.20	Redist., USP 60 lb cans lb		: 3.50	Tantus, 110 Dot	0.00	. 0.00

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LEAVES—Buchu, 10 bls., McLaughlin Gormley & King, Southampton; 5 bls., Peek &
Velsor, Southampton; 41 bis., Order, Southampton; 10 bls., Order, London; Dried, 72
bls., Arnaud Gaidon Freres, Marseilles; 13
bls., Order, Marseilles; Laurel, 90 bls.,
Kuechler & Co., Trieste; 8 bls., Order,
Trieste; Sage, 129 bls., Order, Trieste;
Senna, 56 bls., Anglo Egyptian Bank, Port
Sudan; Thyme, 18 bls., Order, Marseilles
LICORICE—173 pkgs., Anglo-South American
Bank, Alicante

LICORICE—173 pkgs., Anglo-South American Bank, Alicante

LIME JUICE—2 csks., A. D. Strauss & Co., Dominica; 15 csks., Perry, Ryer & Co., Dominica; 155 csks., 43 hhd., Order, Dominica; 8 puns, 10 csks., Order, Port Antonio LITHOPONE—100 bbls., P. Bauer & Co., Rotterdam; 100 csks., Reichard Coulston, Rotterdam; 200 csks., E. M. & F. Waldo, Antwern

LYCOPODIUM—2 cs., Order, Hamburg
MAGNESITE—Calcined, 1,000 bgs., 270 bbls.,

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MAGNESIUM SALTS—25 cs., E. J. Barry, Hull; Citrate, 125 cs., Gallagher & Ascher, Genoa; Chloride, 668 drs., Brown Bros. & Co., Hamburg; 184 drs., Speiden Whitfield Co., Hamburg; 102 bbls., A. Kramer & Co., Hamburg; 102 bbls., A. Kramer & Co.,

Hamburg

MENTHOL—10 cs., Baring Bros. & Co., Southampton; 20 cs., Kidder, Peabody & Co., London

MERCURY-50 flasks, Poillon & Poirier, Vera Cruz; 100 flasks, J. W. Whittal & Co.,

Smyrna
MYROBALANS—4,000 pkts., E. J. Haby, Inc.,
Bombay; 1,316 bgs., Horowitz Arbib. Inc.,
Bombay; 4,668 pkts., Smith & Schipper,
Bombay; 4,000 pkts., Att Express Co., Bombay; 479 bgs., Order, Bombay; 992 pkts.,
Order, Calcutta

NAPHTHALENE-340 bgs., Irving National Bank, London NICKEL SULFATE-39 csks., Fuerst Bros. Co., Swansea
OCHRE-Red, 65 csks., J. L. Smith & Co.,
Hull; 100 drs., O. J. Osborn & Co., Malaga

OILS—Church, 10 csks., Hensel, Bruckmann & Lorbacher, Rotterdam; Codliver, 225 bbls., Order, Bergen; Cottonseed, 317 bbls., G. H. McFadden & Bros., Port au Prince; 260 csks., Southern Cottonseed Oil Co., Buenos Aires; Fuel, 1 csc., F. J. Shepman, Cristobal; Fusel, 9 drs., Miner, Edgar Co., Rotterdam; Industrial, 6 cs., Brown Bros. & Co., Trieste; Linseed, 56 bgs., Natirn Linoleum Co., Hull; 2 bgs., Lincrusta Walton Co., Hull; 537 bbls., Patton, Pitcairn Div. Plate Glass Co., Rotterdam; 355 bbls., Welch, Holm & Clark Co., Rotterdam; 485 bbls., Netherland Chemical Co., Rotterdam; Manganese, 1 csc., Piza, Nephews & Co., Panama, Lubricating, 5 drs., Morana, Inc., Vera Cruz; Mineral, 1 csc., Vacuum Oil Co., Buenos Aires; Nut, 1 csc., L. Serra, Genoa; 1,000 csks., Gillespic & Sons, Shanghai; Oilve, 25 bbls., Mational City Bank, Malaga; 25 bbls., M. P. Tribuno, Malaga; 90 bbls., A. E. Ritwagen, Malaga; 22 bbls., European Corp., Malaga; 20 drs., Banco Commerciale Italiano, Malaga; 30 drs., Banco Commerciale Italiano, Malaga; 50 cs., F. B. Vandegrift & Co., Malaga; 1,000 cs., Order, Malaga; 1 csk., Order, Naples; 74 bbls., A. Papadouponles, Calamata; 40 bbls., Order, Calamata; 1,000 cs., Order, Genoa; 300 cs., Order, Malaga; 10 cs., A. Soprano, Naples; 14 cs., G. Giannelli, Naples; 6 cs., S. Di Paola, Naples; 20 cs., Hudson Forwarding & Shipping Co., Royales; 20 bbls., 900 cs., Irving National Bank, Malaga; 100 cs., A. Fiere & Co., Genoa; 300 cs., International Forwarding Co., Genoa; 200 cs., Males; 200 bbls., 900 cs., Irving National Bank, Malaga; 100 cs., A. Fiere & Co., Genoa; 300 cs., International Forwarding Co., Genoa; 200 cs., Musa Bros., Inc., Genoa; 25 cs., International Forwarding Co., Genoa; 26 cs., C., Genoa; 100 cs., International Forwarding Co., Genoa; 27 cs., Order, Genoa; 28 cs., American Shipping Co., Genoa; 27 cs., American Shipping Co., Genoa;

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bgs., Peek & Velsor, Malaga; Star, 50 cs., W. Tappenbeck, Hongkong; Caraway, 200 bls., Frame & Co., Rotterdam; 200 bgs., Habicht & Co., Rotterdam; 190 bls., Starch Products Co., Rotterdam; 190 bls., Starch Products Co., Rotterdam; Cardamom, 15 cs., Order, Bombay; 81 cs., American Exchange National Bank, Colombo; 10 cs., Order, Colombo; 25 cs., C. L. Huisking, Livingston; 16 cs., Ultramares Corp., Livingston; Castor, 1,388 bgs., Order, Bombay; 23,157 bgs., Order, Cocomda; Flax, 1 cse., National Lead Co., Buenos Aires; 778 bbls., Order, Bristol; 350 bgs., Northwestern National Bk., Minneapolis, Tientsin; Mustard, 1,199 bgs., Order, Tientsin; 100 bgs., B. H. Old & Co., Rotterdam; 130 scks., A. Joensson & Co., London; 2,171 bgs., International Banking Corp., Tientsin

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SENNA—Siftings, 60 bls., Anglo Egyptian

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SHELLAC—300 bgs., N. Y. Trust Co., Calcutta; 300 bgs., Order, Calcutta; 75 chests,

E. E. Andsovede, London; Garnet, 21 bgs..

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SILVER SULFIDE—3 cs., American Metal

Co., South Pacific Ports; 3 cs., W. Schall

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SPERMACETI-54 scks., Duncan Fox & Co., Valparaiso

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SPICES—Cinnamon, 100 bls., Bank of Amer.,
Colombo; 95 bls., American Exchange National Bank, Colombo; Cloves, 350 bls., Order,
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& W. I. Trading Corp., Kingston; Mace, 44
cs., Van Loan & Co., Rotterdam; 2 cs., 1
csk., 1 bbl., D. L. Silverman, Grenada;
Nutmegs, 70 bgs., Order, Singapore; 142 cs.,
Van Loan & Co., Rotterdam; 100 bgs., W.
Tappenbeck, Grenada; 90 bgs., Royal Bank
of Canada, Grenada; Paprika, 115 bgs., Coford & Berendson, Alicante; 90 bgs., H.
P. Herfeldt & Co., Alicante; 190 bgs., H.
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bgs., Order, Alicante; 181 bgs., A. M. Alison
& Co., Bombay; 250 bgs., Order, Batavia;
335 bgs., F. B. Vandegrift & Co., Alicante;
335 bgs., Banque Belge pour l'Etranger,

Alicante; 100 bgs., J. Clarke & Co., Alicante; 40 bgs., Thompson & Taylor, Alicante; 440 bgs., R. Moellhausen, Alicante; Black, 450 bgs., Order, Singapore; Red, 240 bls., B. H. Old & Co., Bombay; Spanish, 150 bgs., M. Caragol & Son, Alicante; White, 165 bgs., Equitable Trust Co., Batavia; 1,296 bgs., Order. Singapore

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TURMERIC-358 bgs., E. R. Lansom & Co., UREA-50 pkgs., Kuttroff, Pickhardt & Co.,

VALONEA-746 bgs., Irving National Bank, Smyrna; 4,092 bgs., Order, Smyrna VANILLA BEANS-20 cs., A. Chiris Co., Havre; Powder, 60 cs., S. W. Driggs Ware-house Co., Rotterdam

house Co., Rotterdam

WAX-108 cs., American Express Co., Harvre;
40 cs., American Express Co., Hamburg;
Bees, 34 bgs., Order, Rio de Janeiro; 58
scks., Duncan Fox & Co., Valparaiso; 39
scks., Guaranty Trust Co., Valparaiso; 39
bgs., Order, Lisbon; 16 scks., Mechanics &
Metals National Bank, Santiago; 13 bgs., Order,
Constantinople; Mineral, 80 bgs., Order,
Hamburg; Montan, 200 bgs., Order, Hamburg
WHITING-200 dble. bgs., Martin Cantine
Co., Hull; 50 bgs., Order, Hull
WINE LEES-792 bgs., Royal Baking Powder

WINE LEES-792 bgs., Royal Baking Powder Co., Buenos Aires

ZINC SALTS-Chloride, 36 drs., Nationall Park Bank, Rotterdam; Oxide, 25 csks., Harriman National Bank, London; White, 7 csks., Reichard Coulston, Inc., Bristol

CHEMICAL PRICES IN GERMANY SOARING (Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Aug. 1 .- Prices of chemicals are advancing daily and most factories are only selling at "prices in force on the day of delivery," as future prices cannot be quoted on account of the constant advances in wages, freight rates and other expenses. Prices of imported articles are increasing, but in view of the uncertain economic and political position and in expectation of the moratorium, customers seem disinclined to commit themselves to any great extent. There is a strong foreign demand for chrome salts, and chromate of sodium is quoted at 95 marks per kilo (2.2 lb.) and bichromate of potassium at 110 marks. The domestic quotation of bichromate is 68 marks.

Most chemicals show an increase of 10 per cent over last week. Common alum is 23 @ 24 marks per kilo (2.2 lb) f. o. b. Carbonate of soda is offered at 10 marks. There is a strong demand for calcined soda and bromide. Calcined soda is quoted at 16 @ 16.75 marks, bromide of potassium at 85 marks, bromide of ammonium at 86 marks, bromide of sodium at 88

marks.

Demand for cryst. glauber salts is especially strong from abroad and a great amount of business is done at 4.50; medium and coarse lots 0.40 marks higher; Chloride of magnesium is also in demand. Caustic soda rose to 68 marks (2.2 lb.) with increasing demand. Caustic

potash is not in the market, but it is quoted at 35 marks. Formic acid is in especially strong demand and customers are offering 40 marks (2.2 lb.). The export price is 90 Swiss francs per 100 kilos (220 lb.). The demand greatly exceeds the supply. The price for betanaphthol, 120 marks, is maintained with strong export demand. Calcium carbide has advanced by 2.50 marks per kilo (2.2 lb.) which brings it up to 21.50 to 22° marks.

The scarcity of coal is retarding production in most industries, and the insufficient supply to the coke works has been followed by a decrease in by-products. Thereprobably will be a shortage of sulfate of ammonia for agricultural requirements.

Importations of oxide of iron from the Province of Quebec, Canada, will be subject to a special dumping duty in addition to the regular levy, liable for violation of the Emergency Tariff Act of 1921, Section 201, according to a ruling of the Customs Division of the Treasury Department. It was found that goods were being unloaded here at prices very unfavorable to American makers.

Copper sales for July were 15,000,000 pounds short of July records show 125,000,000 the total for June. pounds as against 140,000,000 pounds for June. During May 210,000,000 pounds were sold.

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CHEMICAL Broker (graduate chemical engineer) with office in New York, established since 1915, wishes to represent several non-conflicting active chemical accounts in New York, New Jersey, and Connecticut. Here is an opportunity to have your product handled by one who knows the chemical business both technically and commercially. Box 196, DRUG & CHEMICAL MARKETS,

TO MANUFACTURERS of Chemicals in U.S. A. requiring European Representation: Large English Chemical House with branches in six chief centres of Great Britain and representations throughout the world desires agencies for Chemicals, Pigments, Colors and Ingredients used in Paint, Rubber, Glass, Pottery, Paper and Textile Trades. Box 200, DRUG & CHEMICAL MARKETS.

MANAGER WANTED with \$10,000.00, for a company with monopoly on new product supplied to wholesale drug trade. Exceptional opportunity. Helanthyol Company, 2001 Hill St., Jacksonville, Florida.

AGGRESSIVE sales representative in the Dominican Republic, covering the territory with trained salesmen, desires to represent American chemical or pharmaceutical manufacturers. American business and bank references. Address L. Victoria & Co., Apartado No. 28, San Pedro de Macoris, Republica Dominicana.

BUSINESS OPPORTUNITIES

VERY desirable space to sub-let on first floor for coming Chemical Exposition at Grand Central Palace, New York City. Address all communications to Box No. 203, DRUG & CHEMICAL MARKETS.

IMPORT and export agent in Sydney, Australia, seeks agencies for various American Products. Box 209, DRUG & CHEMICAL MARKETS.

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EXCEPTIONAL FUTURE POSSIBILITIES for a thoroughly experienced textile chemist having a good knowledge of matching and testing paper, leather and all textile dyeings. Salary will be based on experience and equipment. Address Room 1006, 7 East 42nd St., New York.

COMPETENT MAN familiar with manufacture of drug specialties. Registered pharmacist or chemist preferred, to produce a certain number of U.S.P. and N.F. articles. Excellent opportunity. Box 197, DRUG & CHEMICAL MARKETS

FACTORY MANAGER WANTED for a company manufacturing fine chemicals by new, patented and cheaper methods. Great opportunity for right man. Box 202, DRUG & CHEMICAL MARKETS.

A PARTY thoroughly familiar with the manufacture of technical resorcin. No other need apply. Cambridge Soap & Chem. Co., 427 East 57th St., N. Y. City.

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STENOGRAPHER AND SECRETARY: Young lady 26 having held similar position for past six years and thoroughly familiar with chemical business seeks position where ability is appreciated. Salary not primary impostance. Box 201, DRUG & CHEMICAL MARKETS.

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BY PROGRESSIVE all around wholesale drug man with twenty years experience desiring permanent connection. Will forward references. Address "R K" Box 213, care of DRUG & CHEMICAL MARKETS.

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BUY FOR EXPORT—Beta-naphthol and aniline oil wanted. Must be cheap for cash against documents. Standard brands only considered. Give full particulars. Box 205, DRUG & CHEMICAL MARKETS.

PROPIONIC and Butyric Acids all grades and strengths for sale at attractive prices. Apply Box 212, DRUG & CHEMICAL MAR-KETS.

THERMOMETERS Clinical Fever, Pirmax Tooth Paste, Soda Ash 58 per cent Light in bags, Sal Ammoniac, Epsom Salt, Vacuum bottles. Coburn Trading Corporation, 295½ Pearl Street, New York City.

PHENOL desired either surplus Government or redistilled, prime white crystals. State quantity whether in tank cars or drums, also lowest F.O.B. shipping price. Will furnish banker's letter credit. Also desire quantities Bichromate Soda and Red Prussiate Potash. Box 201, DRUG & CHEMICAL MARKETS.

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GALVANIZED Tanks wanted, 250 to 500 gal-lons, light weight construction. Address Chees-man-Elliot Co., 639 Kent Avenue, Brooklyn, N. Y.

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A Business Motive Power

The time must come when all businesses will consider the advisibility of advertising in the same spirit that a manufacturer ponders over the advisibility of adopting a new machine. One does not install a piece of laborsaving mechanism because it suits his fancy; but because the efficiency of the business requires it.

He expects the new machine to reduce his cost to operate—perhaps to make a better product—and thus aid him in meeting competition and making larger profits.

Advertising is exactly similar. The man who refuses to consider it as a possible expedient, simply shuts his eyes on one of the problems of his business. He might as well ignore the banks as sources of credit when he has need to borrow capital.

On the other hand, the man who looks to advertising to checkmate all weaknesses and shortcomings of his business and to carry it along to victory despite these, has a childlike faith in the miraculous.

Advertising will not make his product or his service any better than they are; but it will bring him the full benefits of their merits. It will not eliminate wastefulness in his factory or his store; but it will reduce his cost to operate. It will not make illogical selling methods successful; but it will assist good selling methods, and often point the way for improving them.

Advertising is the most inexpensive motive power that the manufacturer or merchant can buy today. It is a form of stimulus that brings excellent returns on the investment.

Published by Drug & Chemical Markets in co-operation with The American Association of Advertising Agencies

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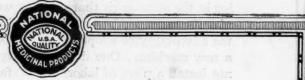
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